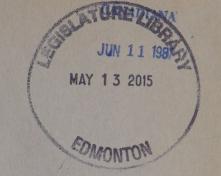
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## ANNUAL REPORT

OF THE

# DEPARTMENT OF AGRICULTURE

OF THE

# PROVINCE OF ALBERTA

1911

PRINTED BY ORDER OF THE LEGISLATIVE ASSEMBLY



EDMONTON
J. W. Jeffery, Government Printer
1 9 1 2

DEPARTMENT OF AGRICULTURE, EDMONTON, January 18, 1912.

To His Honour

George Hedley Vicars Bulyea,

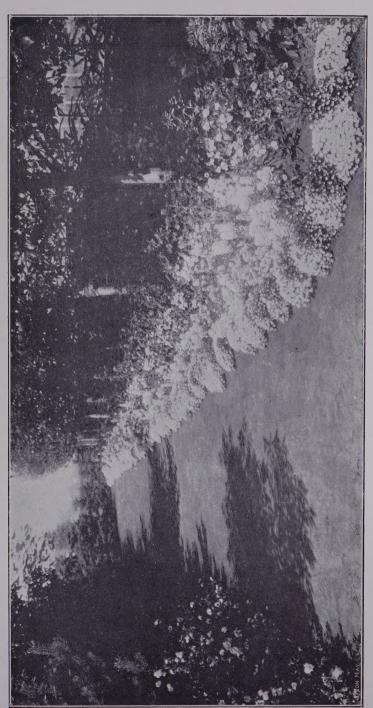
Lieutenant Governor of the Province of Alberta.

I have the honour to submit herewith the Report of the Department of Agriculture for the year 1911.

I have the honour to be, Sir,
Your obedient servant,

DUNCAN MARSHALL,

Minister of Agriculture.



PATH ON THE NURSERY PLOT AT THE GOVERNMENT BUILDINGS, EDMONTON.



#### REPORT

OF THE

### DEPARTMENT OF AGRICULTURE

DEPARTMENT OF AGRICULTURE, Edmonton, January 15, 1912.

HON. DUNCAN MARSHALL, Minister of Agriculture.

SIR,-I have the honour to submit herewith a report covering the work of the various branches of the Department of Agriculture for the year 1911. For convenience the report is arranged as follows:

1. Report of the Deputy Minister.

2. Report of the Dairy Commissioner.

3. Report of the Superintendent of the Seed and Weed Branch.

4. Report of the Game and Fire Guardian.

5. Report of the Poultry Superintendent.6. Report of the Recorder of Brands.

7. Report of the Superintendent of Fairs and Institutes.

8. Report of the Live Stock Commissioner.
9. Report of the Provincial Medical Officer of Health.
10. Report of the Provincial Sanitary Engineer.

11. Report of the Director of the Provincial Laboratory.

12. Report of the Publicity Bureau.

13. Report of the Superintendent of Demonstration Farms.

14. Appendices-

- a—Report of the Alberta Horse Breeders' Association. b—Report of the Alberta Cattle Breeders' Association.
- c-Report of the Alberta Natural History Association.

I have the honour to be, Sir,

Your obedient servant,

GEO. HARCOURT, Deputy Minister of Agriculture.

#### 1.—REPORT OF THE DEPUTY MINISTER.

SIR,—For convenience in dealing with the general work of the department not placed under the supervision of one of the branches, it is thought best to group this work under the following headings:

- 1. Live Stock.
- 2. Crops.
- 3. Vital Statistics.
- 4. Miscellaneous.

#### 1.—LIVE STOCK

Stock came through the winter in very good shape considering that they were a little on the thin side when they went into winter quarters. The season was a very favourable one. The abundant rains produced a luxuriant growth of grass which put all classes of stock into fine condition.

The present season has been an excellent one for horses. The crop of foals was a good one, and prices have ranged high throughout the whole year.

While the cattle came through the winter in rather poor condition, and the dry weather of the spring was unfavourable for early pasture, yet the continued rains made the pastures so luxuriant that cattle were soon in exceptionally fine condition. In fact, many dealers claim that Alberta cattle went on the market in the fall in better condition than for a number of years. Prices for prime cattle were very good. Owing to the abundance of hay and of winter fodder with the prospect of a large amount of cheap grain for feed, a larger number of cattle were put up for winter feeding than in any past year.

The market for hogs was good throughout the year and prices high. There was little disease, and on the whole they were exceptionally healthy.

Sheep came through the winter in excellent shape with a very small loss of about 1 per cent. The lamb crop was good, averaging from 85 to 90 per cent. The most noticeable feature of the sheep industry during the year was the movement on the part of farmers in the central parts of the province to purchase small bunches of sheep.

The season was a very favourable one for the poultry industry. Prices throughout the year for both eggs and dressed birds were maintained at high levels.

The excellent pasture throughout the summer was of great assistance to the dairy industry in that the flow of milk was kept up unusually well. The make of butter last year is the largest in the history of Alberta, and at the same time prices were comparatively high. Fodder of all kinds is abundant for winter feeding and there should be a good yield of milk during the winter.

The report of the Live Stock Commissioner deals with general conditions of the stock industry, and fuller details of the season's work will be found therein.

#### ENROLLMENT OF STALLIONS.

The provisions of The Horse Breeders' Ordinance require the owner of every stallion, who stands his horse for profit or gain, to have him enrolled in the books of the department. Under the authority vested in him by the Ordinance the Minister of Agriculture has decided that only those stallions recorded in the stud book kept under the authority of, or those foreign stud books approved and recognized by, the Canadian National Live Stock Records of Ottawa, shall be eligible for enrollment as purebred stallions.

These Canadian stud books are as follows:

Clydesdale Stud Book of Canada.
Canadian Hackney Stud Book.
Canadian Shire Horse Stud Book.
Canadian Percheron Stud Book.
Canadian Thoroughbred Stud Book.
Canadian Belgian Draft Stud Book.
Canadian Belgian Draft Stud Book.
Canadian Book.
Canadian Pony Stud Book.
Canadian French Coach Stud Book.
Canadian Suffolk Horse Stud Book.
Canadian Standard Bred Stud Book.
Canadian Standard Bred Stud Book.

The following foreign stud books are recognized by the Canadian National Live Stock Records and stallions possessing registration in these records will be entitled to enrollment in the books of the department as purebred:

Cleveland Bay Stud Book. Yorkshire Coach Horse Stud Book. American Morgan Register. American Saddle Horse Register. Ostfriesisches Stutbuch. Stutbuch der Munsterlandisch-Oldenburgischen Geest. Oldenburger Stutbuch. Gestutbuch der Holsteinischen Marschen.

Grade certificates are issued for horses which are not of pure breeding, and those horses recorded in unrecognized stud books.

The enrollment of stallions for the year 1911 shows a slight increase over that of the previous year. The following is a summary:

| Clydesdales 12<br>Belgians 1   | 7 |
|--|---|
| Belgians. 1  | 6 |
| French Coach.  | 1 |
| German Coach.  | 4 |
|  | 5 |
|  | - |
| Percheron. 8<br>Shire.   | _ |
| Ch. Ct. 11. The state of the st | 6 |
| Suffolk Punch.   | 9 |
| Standard Bred.   | 9 |
| Thoroughbred.  | 4 |
|  | н |
| Total enrollment of Pure Breds   | 4 |
| Total enrollment of Grades   | 6 |
|  |   |
| Grand Total  | n |

The above figures show an increase of 10 per cent. in the number of pure bred enrollments over that of the year 1910, and a decrease of 8½ per cent. in the number of grade enrollments. It is interesting to note that this is the largest number of purebreds and the smallest number of grades enrolled in the department within the last six years. Owners not standing their stallions for service are not required to enroll their horses, consequently the following summary does not represent the total number of stallions in the province as there are many most excellent ones in the hands of breeders:

TOTAL ENROLLMENT OF STALLIONS IN PROVINCE.

| Breed  |  | -  |   | YEAR  | ;  |  |  |
|--|--|--|---|---|--|--|--|
|  | 1904-5   | 1906   | 1907  | 1908  | 1909   | 1910   | 1911   |
| Clydesdale. Percheron. Standard Bred. Shire. Hackney. French Draft. Thoroughbred. Suffolk. Belgian. French Coach. German Coach. American Saddle Horse. Cleveland Bay. French Canadian. | 26<br>10<br>14<br>6<br>6<br>4<br>3<br>1<br>4<br>0<br>0 | 81<br>35<br>10<br>10<br>2<br>5<br>10<br>3<br>2<br>2<br>0<br>0<br>1 | 86<br>56<br>15<br>18<br>8<br>2<br>8<br>4<br>9<br>0<br>0 | 95<br>52<br>15<br>11<br>8<br>8<br>6<br>6<br>5<br>4<br>2<br>1<br>0 | 101<br>54<br>20<br>11<br>10<br>5<br>5<br>4<br>3<br>0<br>0<br>0   | 125<br>65<br>14<br>12<br>5<br>0<br>10<br>4<br>10<br>2<br>0<br>1<br>0 | 127<br>82<br>19<br>7<br>5<br>0<br>4<br>9<br>16<br>1<br>4<br>0<br>0 |
| Total Pure Breds Total Grades Total Enrollment   |  | $ \begin{array}{c c} 0 \\ 162 \\ 329 \\ \hline 491 \end{array} $   | 0<br>208<br>334<br>542                                  | $ \begin{array}{c c} 0 \\ 213 \\ 269 \\ \\ 482 \end{array} $      | $ \begin{array}{c c} 0 \\ 216 \\ 231 \\ \hline 447 \end{array} $ | 249<br>225<br>474  | 274<br>206<br>480  |

| Total enrollment in seven years, Pure Bred Total enrollment in seven years, Grade |       |       |
|---|-------|-------|
|   |       |       |
| Total   | 2.852 | 3 332 |

#### ANIMALS RUNNING AT LARGE.

Under this heading is grouped a report on the workings of four Ordinances, namely: The Stray Animals Ordinance, dealing with the disposal of animals found on the premises of parties other than their owner; The Entire Animals Ordinance, providing for the safety of breeding stock on the open range by prohibiting the running at large of stallions over one year, and bulls over nine months old; The Herd Ordinance (applicable only in a limited area), providing for the fencing in of all stock during the crop season, thus reducing the amount of fencing required; and The Pound District Ordinance, under the provisions of which farmers in well settled districts can regulate the running at large of all animals by impounding those not under proper control and assessing damages where it breaks through a lawful fence.

With the rapid settlement that is taking place everywhere, and the large amount of fencing erected, the operation of these Ordinances is becoming more difficult as they do not nearly meet present day requirements. With the near approach of the time when municipalities will be formed it was not thought advisable to make any extensive alterations. It is hoped that at an early date each rural municipality will have full power to decide all questions pertaining to the running at large of all animals within its borders.

## THE STRAY ANIMALS ORDINANCE.

During the year brand readers were appointed wherever it was found necessary to have them. Generally speaking the work of these men has proven very satisfactory.

The following brand readers have been appointed:

|                                   | 11                              |
|-----------------------------------|---------------------------------|
| NAME ·                            |                                 |
| John A Paral-a                    | ADDRESS                         |
| John A. Burke<br>A. J. Hills      | Ferry Point                     |
| A. J. Hills<br>Perry Hubbell      | Daveland                        |
| Perry Hubbell. C. D. Brownfield   | Edonavill                       |
|                                   |                                 |
| Geo. T. Campbell                  | Brownneld.                      |
| Andrew Leslie. Ovide Blouin       | Wanda.                          |
| Ovide Blouin<br>H. N. Lockwood    | Duhamel,                        |
| H. N. Lockwood. Norman Blatchford | · · · · · · · Ferry Point.      |
| Norman Blatchford                 | ·····Provost.                   |
|                                   |                                 |
|                                   |                                 |
|                                   |                                 |
| Henry Frey. Neil Nicholson        | Rarons                          |
| Neil Nicholson<br>Percy Kneechaw  | Granum                          |
| Percy Kneechaw N. Frank Austin    | C4 77 II                        |
| N. Frank Austin.<br>R. A. Pilling | Gaetz Valley,                   |
| R. A. Pilling.<br>N. Neilson      | Cardston,                       |
| N. Neilson<br>Percy W. Rubbra     |                                 |
| Percy W Rubbra                    | · · · · · · · · Taber,          |
| Percy W. Rubbra.<br>W. B. Thorne  | · · · · · · Carstairs.          |
| W. B. Thorne.<br>C. Nixon         | · · · · · · · Aldersvde.        |
| C. Nixon<br>G. H. Bawtinheimer    | · · · · · · · · Manfred.        |
| G. H. Bawtinheimer<br>Henry Brace |                                 |
| Henry Brace.<br>Jas. S. Parker.   | Notre Dame de Sarra             |
| Jas. S. Parker<br>David J. Witwer | Mountain Vi-                    |
| David J. Witwer. Thos H. Depres   | A orac                          |
|                                   |                                 |
|                                   |                                 |
| Thos. Sigurdson. A. J. Cameron    | Round Hill.                     |
| A. J. Cameron<br>W. K. Eyans      | Solheima.                       |
| W. K. Evans<br>Peter McElroy      | · · · · · · · Ghost Pine Creek. |
| Peter McElroy                     | · · · · · Three Hills.          |
| Peter McElroy.<br>E. Miller       | · · · · · · · Nanton.           |
|                                   |                                 |
| Walter Sharpe<br>L. N. Bull       | · · · · · · · Sedgewick         |
| L. N. Bull.<br>E. S. Stanley      | Hastings Coulog                 |
| E. S. Stanley O. A. Hastings      | Gilby                           |
| O. A. Hastings<br>R. V. Campbell  | Hestings Carl                   |
| R. V. Campbell<br>C. H. Schneider | Darrala - d                     |
| C. H. Schneider.<br>J. F. Harris  | Daysland,                       |
| J. F. Harris<br>T. J. Coppock     | Flagstan.                       |
| T. J. Coppock.                    | ······riagstan.                 |
| George Scott. A. E. Hunter        |                                 |
| A. E. Hunter<br>John Wright       | Okotoks.                        |
| John Wright                       | · · · · · · · · Claresholm.     |
| John Wright Lawrence Doyle        |                                 |
| Lawrence Doyle D. A. Hart         | · · · · · · · Carmangay.        |
| D. A. Hart<br>Donald Smith        | · · · · · · · Ohaton.           |
|                                   |                                 |
|                                   |                                 |
|                                   |                                 |
| Elias Pilling.<br>Harvey Kibbe    | Tooritt                         |
| Harvey Kibbe<br>Noah Wakeford     | Edhama                          |
| Noah Wakeford. Oliver Gibbon.     | Edberg.                         |
| Oliver Gibbon.  Jas. Tees         | Gladys.                         |
| Jas. Tees                         | Erskine.                        |
| E. J. Thorne                      | · · · · · Valley City           |
| E. J. Thorne.<br>Jas. B. Erickson | · · · · · · Aldersyde.          |
| Jas. B. Erickson                  |                                 |
|                                   |                                 |

| NAME                  |      | ADDRESS      |
|-----------------------|------|--------------|
| /                     |      | T71:         |
| Geo. Bourque          | <br> | Earning.     |
| Can Plankist          |      |              |
| Goo Todd              | <br> |              |
| H C Sparby            |      |              |
| Arthur R. Bond        |      | Loma.        |
| Levi Ayotte.          |      | Champion,    |
| F. S. Newman          | <br> | Hand Hills.  |
| F. S. Newman.         | <br> | Hand Hills   |
| Fred Mason            | <br> | Coronl       |
|                       |      |              |
| Clarence N (#1137D11D |      |              |
| Archie Neil McKinnon  | <br> | Lesileville. |
| John A Swanson        |      | I rochu.     |
| I H McArthur          | <br> | Met ver tom. |
| Thomas Moore          |      | Trochu.      |
| N. W. Goodwin.        | <br> | Perheck.     |
| N. W. Goodwin         |      | Galahad      |
| C. A. Hogan           |      | Formy Point  |
| Ole Lundell           |      | Ferry 1 onto |
| Edward T Dahl         |      | Czar.        |
| I P Adams             | <br> | Lougneed.    |
| Wolter R Iov          |      | Doyne Lake.  |
| Blair McGrecor        | <br> | verminon.    |
| Jas. T. Brady         |      |              |
|                       |      |              |

The number of estray animals advertised in the official Gazette shows a slight decrease for the past year. While the number of animals actually sold by the justices of the peace shows a larger percentage than those sold in the same period last year.

During the year 707 head of cattle, 444 head of horses, 2 sheep, and 8 swine were advertised in the supplement to the official Gazette. Of this number 190 head of cattle, 116 horses, 2 sheep, and 4 swine were sold. The remainder of those advertised were reclaimed by

the owners.

Following is a statement showing the number of animals sold, when, by what justice, amount received, and amount forwarded to the department. The money received is placed in a trust fund and may be obtained by the owner upon his proving to the satisfaction of the department that he is the rightful owner.

SALES OF ESTRAY ANIMALS UNDER THE STRAY ANIMALS ORDINANCE, FROM JANUARY 1st TO NOVEMBER 30th, 1911.

| Sent to<br>Depart-<br>ment | 80.   | 73.00   | 166.30  | 183.40   | 26.20  | 75.95<br>28.05<br>9.54  | : :  | 9.16   | 6.95   | :  | 1.90  | 1.05  | 26.55   | 5.00  | 15.40   | 29.00   |
|----------------------------|---|---|---|--|--|---|--|--|--|--|---|---|---|---|---|---|
| Proc'ds<br>of<br>Sale      | \$12.00   | 87.00   | 175.00  | 192.50   | 42.00  | 82.00<br>45.00<br>27.00   | 13.00  | 27.00  | 24.00  | 17.00  | 31.00   | 17.00   | 36.00   | 16.00   | 24.50   | 190.00  |
| Date of<br>Sale            | July 24, 1911   | May 29, 1911<br>Feb. 21, 1911   | Aug. 8, 1911  | Aug. 8, 1911   | July 7, 1911   | Aug. 23, 1911<br>June 26, 1911<br>Feb. 11, 1911   | Feb. 11, 1911<br>Feb. 11, 1911   | Feb. 11, 1911  | Mar. 4, 1911   | Mar. 3, 1911   | Feb. 20, 1911   | Mar. 3, 1911<br>June 5, 1911  | June 17, 1911   | June 17, 1911   | June 17, 1911<br>Mar. 18, 1911  | Mar. 11, 1911   |
| First Gazette<br>Notice    | Mar. 31, 1911   | Mar. 15, 1911<br>Sept. 30, 1910   | Apr. 30, 1911   | Apr. 30, 1911  | Jan. 31, 1911  | July 31, 1911<br>Feb. 15, 1911<br>Nov. 30, 1911   | Dec. 31, 1910<br>Dec. 15, 1910   | Nov. 14, 1910  | Dec. 31, 1910  | Dec. 31, 1910  | Dec. 31, 1910   | Jan. 31, 1911<br>Jan. 31, 1911  | Mar. 31, 1911   | Mar. 15, 1911   | Mar. 31, 1911<br>Dec. 31, 1910  | Dec. 31, 1910   |
| Date of<br>Capture         | Dec. 15, 1910   | Dec. 1910<br>Nov. 1908  | May 5, 1910   | May 5, 1910  | July 1909  | May 12, 1911<br>July 1910<br>Nov. 15, 1910  | June<br>Nov. 23, 1910  | Nov. 1, 1910   | Dec. 1910  | Dec. 1910  | Dec. 4, 1910  | Nov. 15, 1910<br>Nov. 15, 1910  | Dec. 12, 1910   | Nov. 15, 1910   | Dec. 14, 1910<br>Nov. 15, 1910  | Nov. 20, 1910   |
| CLASS OF ANIMAL            | Steer, brindle, white stripe on right side, white on belly, left ear cropped, no visible brand.  Mare, gray, or white, weight about 1.300 pounds dark fast no | Steer, stag, red, white face, no brand visible brand Gelding. Bay, star no frielend two white hind fast show to now | Gelding, brown, stripe in face, hind legs white, about 7 years. | Mare, dark gray h, our years old, blemished on right hind foot left hind foot partly white, about 1,000 nounds no heards | visible.  Mare, bay, pony, star in forehead, stripe in face, about 800 pounds, 3 or 4 years old. branded lazy reversed T followed by H | monogram, right shoulder Steer, red, 3 years old, no visible brand. Cow, aged, red, branded 2 V lower quarter circle under. Steer, red and white, no visible brand, tin of tail, and runn and | flank white. Calf, heifer, white spot on right stiffe, colour red, no brand visible Steet, white, 2 years old, right ear split, left ear marked no heand | Visible. Cow, light red, white spot on flank, dehorned, rope on neck, no | brand visible.  Heifer, Hereford, brockle face, rising 3 years old, branded S S on | nght rump.<br>Cow, red, large, white on face, wild, branded T E bar under on | Cow, red, horns turned in, white on end of tail about 3 years old | notch in right ear, no brand visible.  Heifer, red, one year old, little white on belly, no brand visible Steer, roan, 4 years old, left ear off, tip off right ear, little white | on forehead, branded L followed by spittoon, with 2 P lower quarter circle under, under the L spittoon, on right hip Heifer, white, red head and neek, about 18 months old no brand | visible.  Heifer, red. 3 years old. very small. little white under hally, small | horns, branded monogram J M bar over, right thigh.  Steer, led and white, 2 years old, has horns, no brand visible.  Horse, light bay, relding about 1 400 rounds about 0 mose old. | indistinct brand on right shoulder, stripe in face, white hind foot |
| ADDRESS                    | FlagstaffBardo  | Blackie.<br>De Winton   |   | Dewberry   | Ribstone   | Amisk<br>Ponoka   |  | ***************************************                                  |  | Ferry Point  |   | # # # # # # # # # # # # # # # # # # #   | 3   | ***   | Olds.<br>Grassy Lake.   |   |
| JUSTICE                    | Adley, C. B. Flagstaff. Anderson, P. B. Bardo   | Bertrane, F. G Blackie Blackwood, A. S De Winton  | :   | Blair, R. F Dew  | Burton, A. W Ribstone.   | Borth, Arnold Amisk Burwash, A. P.  | ::   | 99 99  |  | Campbell, Fred Ferry Point   |   | 3 3 3   |   |   | Campbell, R. B. Olds.   |   |

SALES OF ESTRAY ANIMALS UNDER THE STRAY ANIMALS ORDINANCE, FROM JANUARY IST TO NOVEMBER 30TH, 1911.—Continued.

| Sent to<br>Depart-<br>ment | \$ 4.15  | 1.50   | :   | 16.05   | 16.05  | 38.15   | 52.11   | 35.05   |  | 10.25  | . 50  |  | 1.10   | 8.10   | 8.10   | 16.45  | 79.15<br>26.33<br>13.70  | 4.44  |
|----------------------------|--|--|---|---|--|---|---|---|--|--|---|--|--|--|--|--|--|---|
| Proc'ds<br>of<br>Sale      | \$20.00  | 18.00  | 9.00  | 32.50   | 32.50  | 54.00   | 67.50   | 20.00   |  | 27.00  | 28.00   | 19.00  | 4.50   | 23.50  | 23.50<br>45.50   | 30.00  | 85.00<br>46.00   |   |
| Date of<br>Sale            | Jan. 14, 1911  | Feb. 23, 1911  | Apr. 26, 1911   | Apr. 24, 1911   | Apr. 24, 1911  | Mar. 8, 1911  | Sept. 3, 1911   | Sept. 3, 1911   |  | Mar. 8, 1911   | May 23, 1911<br>May 23, 1911  | 58,  | Sept. 9, 1911  | Mar. 28, 1911  | Mar. 28, 1911<br>Nov. 15, 1911   | 15,  | June 15, 1911<br>Apr. 17, 1911   | Apr. 17, 1911   |
| First Gazette<br>Notice    | Oct. 31, 1910  | Nov. 31, 1910  | Feb. 15, 1911   | Feb. 15, 1911   | Feb. 15, 1911  | Dec. 15, 1910   | Mar. 15, 1911   | Mar. 15, 1911   |  | Jan. 14, 1911  | Mar. 15, 1911   | Mar. 15, 1911  | June 30, 1911<br>Jan. 15, 1910   | Jan. 31, 1911  | Jan. 31, 1911<br>Dec. 31, 1910   | Jan. 31, 1911<br>Feb. 28, 1911   | Mar. 31, 1911<br>Jan. 1911   |   |
| Date of<br>Capture         | June 30, 1910  | Oct. 31, 1910  | July 1, 1910  | Jan. 17, 1911   | Jan. 17, 1911  | Nov. 10, 1910   | Feb. 1, 1911  | Feb. 1, 1911  |  | May 1910   | Feb. 1, 1911  |  | May 13, 1911<br>Oct. 1, 1909   | Nov. 15, 1910  | Nov. 15, 1910<br>Nov. 15, 1909   | June 15, 1910  |  | Dec. 24,  |
| CLASS OF ANIMAL            | Cow and calf, all red cow, branded T reversed N quarter circle | Heifer, red, white under belly, tip of tail white, rising 2 years, small horns, no brand visible | Steer, red, some black on head and neck, about a year old, no brand visible | Gelding, white, about 900 pounds, about 12 years old, branded dot 1 L (script) on left shoulder | Gelding, white, top half of tail gray, about 10 years old, about 800 pounds, no brand visible. | Horse, bay, hind legs white, spot in forehead, about 900 pounds, branded C 6 Y. on left shoulder. | Colt, mare, about two years old, hind feet white and right front foot white, strip in face, spot on nose, no brand visible. | Mare, bay, cayuse, aged, two hind feet white, left front foot white, white face, branded 116 lazy B over, on right hip. | Pony, mare, buckskin, hind and left front feet white, white late, 120 nt 4 years old, branched 3 tooth rake, left shoulder, triangle with an invested Y strange to bottom of triangle with a Y | over attached, short bar through, also 3 tooth rake, right shoulder. | Mare, gray, stripe in face, 10 or 11 years old, about 750 pounds, no brand visible. | Mare, filly, bay, 2 years old, no brand visible. Mare, black, 7 years old, about 700 pounds no visible brand. Two shear one with underbit out of left ear one with overbut | out of left ear; and a swallow tail cut out of right ear, both out of left ear; and a swallow tail cut out of left ear; and a swallow of oil, other 2 years old.  Mare have shout 18 months, white stoots, no brand visible. | Steer, red, rising 2 years, white spot over right shoulder, end of tail white, unreadable brand on right ribs.   | Steer, red, 2 years old, white on flanks, unreadable brand on right<br>ribs.  Pic sow black short fail right ear bunched, left ear split | Mare, white, pony, branded S E and IWS.  Mare, small breed, sorrel, 3 years old, 3 white feet, stripe on fore- | Mare Bay, no brand Tanbe.  Mare Bay, about 1.150 pounds, 8 years old, branded K H, on left shoulder.  Steen white 4 years old, no brand visible. | Cow, red, white on belly, 3 years old, no brand viscole. Heier, black, 2 years old, branded H or inverted 4, 9, lower half eignmend under, on right ribs. |
| ADDRESS                    | Camrose  | 3  |   |   |  | Halkirk   | 3   |   | Caseleyville   |  |   | 3 3 200  | Daveland   | Tay or and the same of the sam |  |  | "<br>Perbeck   | 3 3   |
| JUSTICE                    | Corneille, C. G Camrose  | 2 2  | £   |   | 3  | Chatham, P Hal  |   | *   | Caseley, A Caseleyville  |  | 3   |  | Carruthers, M. E Land  | Davidson, D  | » »  | Davie, et D  | Davies C A   |   |

|  |   |   |   |  |   |   |   |   | ,  |  |   |  |   |  |                            |
|--|---|---|---|--|---|---|---|---|--|--|---|--|---|--|----------------------------|
| :  | 23.28<br>1.58<br>3.53   | 48.36<br>.60<br>11.33<br>5.97<br>4.50   | 5.65  | .85  | 3.20  | 63.70   | 14.04   | 147.50 128.75   | 116.42   | 26.80  | 1.13  | 31.30  | 115.40  | 8.80   | 6.45                       |
| 00.9   | 3.00<br>40.00<br>17.00<br>19.00   | 65.00<br>16.00<br>27.00<br>21.50<br>20.00   | 21.00   | 18.00  | 20.00<br>26.00  | 76.00   | 30.00   | 147.50  | 135.00   | 43.00  | 16.00   | 42.00  | 20.00   | 20.00<br>12.00   | 15.00                      |
| 17, 1911   | 8, 1911<br>7, 1911<br>9, 1911<br>9, 1911  | 9, 1911<br>9, 1911<br>9, 1911<br>9, 1911<br>9, 1911   | 29, 1911  | 21, 1911   | 15, 1911<br>17, 1911  | Feb. 17, 1911   | 22, 1911  | 22, 1911  | 22, 1911   | 18, 1911   | 25, 1911  | 4, 1911  | 28, 1911  | 5, 1911  | 1911                       |
| Apr.   | Feb.<br>Mar.<br>Mar.<br>Mar.  | Mar.<br>Mar.<br>Mar.<br>Mar.  | Apr. 2  | Apr. 2   | Mar. 1<br>Feb. 1  | Feb. 1  | Feb. 2  | Feb. 2  | Feb. 2   | Feb. 1   | Feb. 2  | Feb.   | Apr. 28<br>Feb. 1   | Jan. 27,<br>June 5,  | July 13,<br>May 29,        |
| 1911   | 15, 1910<br>30, 1910<br>31, 1910<br>31, 1910  | 31, 1910<br>31, 1910<br>31, 1910<br>31, 1910<br>31, 1910  | 28, 1911  | 14, 1911   | 14, 1911<br>15, 1910  | Feb. 15, 1910   | Dec. 15, 1910   | Dec. 15, 1910   | Dec. 15, 1910  | 15, 1910   | 31, 1910  | 31, 1910   | 31, 1911<br>15, 1910  | 15, 1910<br>28, 1911   | 30, 1911<br>28, 1911       |
| Jan.   | Aug.<br>Nov.<br>Dec.<br>Dec.  | Dec.<br>Dec.  | Feb. 2  | Feb. 1   | Jan. 1<br>Feb. 1  | Feb. 1  | Dec. 1  | Dec. 1  | Dec. 1   | Dec. 1   | Dec. 3  | Aug. 3   | Mar. 3<br>Nov. 1  | Oct. 14<br>Feb. 22   | Apr. 30<br>Feb. 28         |
| 24, 1910   | 1, 1910<br>13, 1910<br>13, 1910<br>13, 1910   | 13, 1910<br>13, 1910<br>13, 1910<br>13, 1910<br>13, 1910  | 10, 1911  | 15, 1911   | 1, 1910<br>25, 1910   | 25, 1910  | 10, 1910  | 10, 1910  | 10, 1910   | 1908   | 1, 1910   | June 15, 1910  | 11, 1911  | 1, 1910<br>18, 1909  | 18, 1909<br>1, 1911        |
| Dec.   | June<br>Aug.<br>Dec.<br>Dec.  | Dec.  | Jan.  | Jan.   | Dec.<br>Jan.  | Jan.  | Aug.  | Aug.  | Aug.   | July   | May   | June 1   | Mar. 1<br>July  | June<br>Apr. 1   | Apr. 1<br>Feb.             |
| (Calf. yearling, spotted red and white, bull, no brand visible | llores, black, 4 white legs, white face, 3 years old, no brand visible Steer, roan, yearling, no brand visible. Helfer, roan, 3 years old, both ears off, no brand visible. Steer, red and white, 5 years old, delormed, out in left ear, branded 4 Dar oyer, on left hip, and P 9 lower half diamond under | Call, no fight hip. Call, red and white, no brand visible (bull). Sleer, roan, 2 years old, one horn off, no brand visible. Heller, black, 2 years old, one ear off, no brand visible. Sleer, red and white, one ear off, no brand visible. Sleer, red, bob tail, forms sawn off, pranded V. coses, hance, stall. | Steer (ox), about 6 years old, deborned, brindle, white along sides of belly, red in centre of belly, small spot in face, ring in nose, end of right ear cut senare of the order or or order or | Steer, red, little white on belly, little white on fanks, ends of es | Horse, black, horse colt, no brand visible.  Horse, poan mare, branded 7 bar C connected on right shoulder, and blotched brand which looks like lazw W connected by | Steer, red, brockle faced, 4 years old, stubby horns no brand | Gelding, brown, branded H 2 monogram, 7 H monogram over | Gelding, light bay, white hind feet, strine on nose had halter on | Steer, red, mulley, 3 years old, branded bar 2 inverted Y wi | Y with five standing lines inside half circle, on right ribs, say on white five standing lines inside half circle, on right ribs, Steer, red and white, coming 2 years old, sear on right flash. Steer, red and white, coming 2 years old, sear on right flash, left | ear notebach, no tail, no brand visible.  Horse, brown, small, sbout 900 pounds, small star in forehead.  Poth tears split, branded large S. S but under, on right shoulder.  M on left shoulder, and a heart brand on ton of an one branch to the start of the split shoulder. | no left thigh.  Horse, ridgeling, dark gray, about 4 years old, about 1.100 nounds | Wule, bay white hind feet, no brand visible  Cow, red, small Thorns, cropped ears. 7 years old no brand visible | Mare, black, branded square on left shoulder  Horse, Pozah, strip in face, three white feet, about 1100 nounds | no brand visible           |
| Davie, J. S. Crossfield Crossfield                             | Darlow, G. H Alix.  | Doughty, L. M.  | 3   | 27   | Duffus, A Calgary   | Edgeworth, A Foreman.   | , , , , , , , , , , , , , , , , , , ,                   | 3 3   | Fleming, A. W Ohaton   | 33 39  | Fletcher, R. W Burdett  | я я  | Fetherston, T. W Nanton.  | 7  | Graham, Jos, H, Brownfield |

Sales of Espray Animals Under The Steat Animals Ordinance, from January 1st to November 30th, 1911.—Confinued.

| Sent to<br>Depart-<br>ment | \$91.33         | 61.35             | 17.70          | 61.70   | 105.75        | 18.50  | 7.18             | 13.80            | 1.70          | 15.50   | 112.65        | 106.00           | :              | 5.15                     | 2.90          | -                                   |
|----------------------------|-----------------|-------------------|----------------|---|---------------|--|------------------|------------------|---------------|---|---------------|------------------|----------------|--------------------------|---------------|-------------------------------------|
| Proc'ds<br>of<br>Sale      | 115.00          | 80.00             | 26.00          | 73.00   | 125.00        | 26.50  | 23.00            | 28.00            | 15.00         | 31.00   | 130.00        | 121.00           | 11.00          | 19.50                    | 20.00         | _                                   |
| Date of<br>Sale            | May 15, 1911    | June 17, 1911     | June 24, 1911  | Aug. 1, 1911  | Mar. 23, 1911 | Aug. 12, 1911  | Sept. 29, 1911   | Feb. 20, 1911    | May 9, 1911   | -   | Feb. 1, 1911  | Feb. 14, 1911    | Apr. 1, 1911   | July 5, 1911             | July 22, 1911 | July 22, rota                       |
| First Gazette<br>Notice    | Feb. 28, 1911   | Mar. 15, 1911     | July 30, 1910  | .:  | Jan. 14, 1911 | May 15, 1911   | Feb. 15, 1911    | Dec. 15, 1910    | Feb. 15, 1911 | Jan. 15, 1911   | Nov. 15, 1910 | Dec. 15, 1910    | Jan. 14, 1911  | Mar. 15, 1911            | Feb. 28, 1911 | E eD. 20, tott                      |
| Date of Eapture            | July 15, 1910 F | Feb. 13, 1911   M | Mar. 1, 1910 J | :   | Oct. 1910 J   | Apr. 1, 1911 N   | Feb. 7, 1911   I | Nov. 1, 1910   I | Feb. 1910   I | 1910  | May 1910 1    | Nov. 1, 1910   1 | Nov. 1910      | Dec. 1, 1910             | Dec. 15, 1910 | _                                   |
| CLASS OF ANIMAL            | !               |                   |                | Gelding, branded horizontal bar connected to inverted v, or an upper half diamond, on left shoulder |               | Herier, red roan, bald tace, z years old, indistunctly brance on right side, looks like a double headed vertical arrow running towards belly, same brand only lazy, on right side. |                  |                  |               | Cow and calf, cow red, white under belly, horns, branded reversed 9 followed by a haif circle down over, on left ribs |               |                  |                | ided split key points up |               | Calf, heifer, red, no brand visible |
| ADDRESS                    | Stettler        | 3 3               |                | Macleod   | -             | Okotoks  | Edberg           | Westerdale       | Ulster        | ***************************************   | Gleichen      | Bon Accord       | Pine Lake      | 3                        | 3             |                                     |
| JUSTICE                    | Grey, W. B.     | 3 3               |                | George, F. W. B   | Henry, C. G   | Hodson, S. R.  | Johnson, Chas    | Kembry, R. A     | Kennedy, Thos |   | Laycock, J. L | Mason, Wm        | Milligan, Robt | 3                        |               | 3                                   |

| Melin, O. C Calmar                                    | Calmar.                                 | Horse, brown, gelding, white spot in forehead, one white hind foot, about five years old, about 1,100 pounds, indistinct   |  |                               |   |  |                                   |                        |
|---|---|--|--|-------------------------------|---|--|-----------------------------------|------------------------|
| 3   | 3                                       | Mare, buckskin pony, about 700 pounds, black legs to knees, black line along back, tail out to hocks about 7 years old no prend  | Oet. 1, 1                              | 1, 1910                       | Dec. 15, 1910                                   | Feb. 18, 1911                                  | 141.50                            | 121.60                 |
|   | 3                                       | visible.  Heifer, one year old, red, broad horns shaped like a Durham, no  |  |                               |   | Feb. 25, 1911                                  | 35.00                             | 17.85                  |
| Mortimer, S Cla                                       | Claresholm                              | March 48 valible.  March 48 vali | Dec. 15, 1                             | 15, 1910                      | Jan. 31, 1911                                   | Apr. 1, 1911                                   | 17.50                             | 2.65                   |
|   | ***                                     | Mare, bay, weight about 900 pounds, about 16 years, no brand   | July 30, 1910                          |                               | Aug. 15, 1910                                   | Mar. 20, 1911                                  | 41.00                             | 30.85                  |
| Mawhinney, H Acme                                     | Acme.                                   |  | Aug. 1, 1910<br>1909<br>Nov. 15, 1910  |                               | Mar. 15, 1911<br>Aug. 1909                      | June 17, 1911<br>Jan. 14, 1911                 | 14.00<br>26.00<br>20.00           | 9.03                   |
| 7 7   | 3                                       | ow, brance square with H inside of it and A resting on top of the square.  Horse, black, four white feet, brancled monogram T inverted T followed by low m or with the square.   | Mar. 15, 1910                          |                               |   | Mar. 20, 1911                                  | 20.00                             | :                      |
|   | 2 3                                     |  | May 15, 1910<br>1908                   |                               | Dec. 31, 1910<br>Feb. 15, 1911                  | Mar. 2, 1911<br>May 29, 1911                   | 47.00<br>19.50                    | 28.03                  |
| McLeod, J. B  | Flagstaff                               | be a blurred brand<br>Steer, red, grade, Hereford, mark on left ear face and belly white   |  | :                             | June 31, 1911                                   | Aug. 26, 1911                                  | 20.00                             | 35.41                  |
| McNaughton, J   | Carmangay                               | no brand visible.  Heifer, two years old, red, white feet and belly, no brand visible.  Horse, sorrel, star on forelead, no brand visible.  Colt, bay, left hind foot white, white on forehead, sear on left of the foot white, white on forehead, sear on left of the hour a vesse, old should be a sear on left.   | Jan. 1, 1<br>Jan. 1, 1<br>May 1, 1     | 1911<br>1911<br>1910<br>(1910 | Feb. 15, 1911<br>Feb. 15, 1911<br>Oct. 15, 1910 | Apr. 27, 1911<br>Apr. 20, 1911<br>Feb. 4, 1911 | 25.00<br>16.00<br>117.00          | 9.40<br>.80<br>102.43  |
| McNichol, Jas Blackfalds.                             |   |  | Apr. 15, 1                             | 1910                          | Dec. 31, 1910                                   | Mar. 11, 1911                                  | 95.00                             | 86.40                  |
| Olesberg, O. E Bawlf                                  |   |  | May                                    | :::                           | 31,   | 10,10,0  | 110.00<br>14.00<br>10.00<br>25.00 | 99.15                  |
| Park, William.  | Minburn                                 |  | Dec. 10, 1910                          |                               | Dec. 31, 1910<br>Dec. 31, 1910                  | Mar. 10, 1911<br>Mar. 25, 1911                 | 36.00                             | 21.00                  |
| " Patrick, A. P. Calgary Paul, John Fort Saskatchewan |   | Herier, small, red. 2 Pyears old, no brand visible Steer, red and white, about 24 years old, no brand visible Herier hank multe, about 25 belts old, no brand visible  | Dec. 10, 1<br>Dec. 10, 1<br>Nov. 15, 1 | 1910<br>1910<br>1910          | Dec. 31, 1910<br>Dec. 31, 1910<br>Nov. 30, 1910 | Mar. 25, 1911<br>Mar. 25, 1911<br>Feb. 9, 1911 | 20.00<br>31.00<br>20.00           | 4.00<br>15.00<br>11.65 |
| Phillips, C. B  |   |  | Nov. 1, 1910                           |                               | Mar. 31, 1911                                   | June 20, 1911                                  | 15.00                             | 5.90                   |
| 25  | *************************************** |  | Dec. 1, 1                              | 1910 I                        | Dec. 30, 1910                                   | Mar. 10, 1911                                  | 17.00                             | 1.40                   |
| Pinnell, F Alix                                       |   | U I, lower quarter circle  | Jan. 21, 1911                          |                               | Feb. 28, 1911                                   | Mar. 1, 1911                                   | 16.25                             | :                      |
|   |   |  | Jan, 1                                 | 1911   H                      | Feb. 15, 1911                                   | Apr. 26, 1911                                  | 39.00                             | 22 52                  |

SALES OF ESTRAY ANIMALS UNDER THE STRAY ANIMALS ORDINANCE, FROM JANUARY 1ST TO NOVEMBER 30TH, 1911.—Continued,

| Sent to<br>Depart-<br>ment | \$ 3.50  | 2.15   | 4.10   | :  | 4.35<br>10.15<br>183.50  | 71.60  | 48.05   | 33.70  | 50.25   | 1.50  | 9.84   | 8.45   | 16.13  | ne.   | 60.55  | 10.05  |
|----------------------------|--|--|--|--|--|--|---|--|---|---|--|--|--|---|--|--|
| Proc'ds<br>of<br>Sale      | \$19.00  | 16.00  | 18.00  | 10.00  | 20.00<br>7.00<br>27.00<br>196.00   | 00.77  | 58.00<br>14.25<br>9.25  | 20.00  | 62.00   | 15.50<br>16.00  | 25.00<br>42.00   | 52.00<br>52.00   | 31.00  | 19.90   | 81.00  | 30.00  |
| Date of<br>Sale            | Apr. 26, 1911  | Apr. 26, 1911  | Apr. 26, 1911  | Apr. 26, 1911  | Apr. 24, 1911<br>Apr. 24, 1911<br>Feb. 25, 1911<br>July 13, 1911   | Aug. 26, 1911  | Aug. 26, 1911<br>June 3, 1911<br>June 3, 1911   |  | June 13, 1911   | Mar. 31, 1911<br>Mar. 14, 1911  | Mar. 23, 1911<br>Mar. 14, 1911                                     | 4,4,   | Mar. 14, 1911<br>Mar. 14, 1911<br>Feb. 50, 1011  | 3   | Jan. 28, 1911                                  | Mar 11 1911                                    |
| First Gazette<br>Notice    | Feb. 15, 1911  | Feb. 15, 1911  | Feb. 15, 1911  | Feb. 15, 1911  | Feb. 15, 1911<br>Feb. 1, 1911<br>Dec. 31, 1910<br>May 31, 1911   | June 15, 1911  | June 15, 1911   |  | Mar. 31, 1911   | Jan. 14, 1911<br>Dec. 15, 1910  | 15,  | 31, 1  | Dec. 31, 1910<br>Dec. 15, 1910<br>Dec. 30, 1010  | Ŝ   | Nov. 15, 1910                                  | Dec 31 1910                                    |
| Date of<br>Capture         | 1911   | 1911   | 1911   | 1911   | 1911<br>1911<br>1, 1910<br>1910  | 1910   | 1910  | :  |   | 9, 1910   | 9,   | 15,  | 7, 1910  |   | 1, 1910  | 3, 1910  |
| Ca                         | Jan.   | Jan.   | Jan.   | Jan.   | Jan.<br>Jan.<br>Oct.<br>June   | Nov.   | Nov.  |  |   | Dec.  |  | Aug.   | Dec.   |   | Nov.   | Dec.   |
| CLASS OF ANIMAL            | Heifer, Ted, horns sawn off, two years old, branded X 2 upper half diamond under, on left hip. | a right half circle, 4 bar under, on right hip.  Heifer two years old red hyranded X 9 unner half dismond under. | Heifer light rip white rising 3 years hranded 1 3 V on | The control of the co | Heifer, red and white, about a year oil, no brand visible.  Steer, red, white mark inside of right hind leg, no brand visible.  Mare, gray, about 9 years old, no brand visible. | Astronomy Setulng, Cyde, weight about 1,000 bounds, 4 white feet, stripe in face, branded D with small C 9 over, on left thigh.  Mare gray about 1100 nounds branded R on yielf shouldan | maring any trion that are a marine and are a marine and are and are the strong and are a marine | Gelding, gray, 6 years old, no brand visible.  Mare, colt, dark bay, two white hind feet, 3 years old, branded | Heifer, red and white, bob tail, end of ears frozen off, eighteen | months old, no brand visible.  Heifer, red, 18 months old, end of ears frozen off, no brand visible.  Steer, red, mulley 18 months old, branded 78 and 0 with a cross | through it on right ribs. Cow, red, 4 years old, no brand visible. | Heifer, red and worte at your consistent with the form of the form | Cow, red, and write, a years old, musicante brand on let shounder.  Cow, red, stub horns, 4 years old, no brand visible.  Heifer 18 months old red liftle white on belly on brand visible. | Horse, bay, white socks on hind legs, white on left front foot, white stip, on flee, white on nose, age about 4 years, weight about 1,100 pounds branded W. A monogram, on left flash, a horse species love in the serves love into a leave to sell server. | Heier, red. mulley, rising 3, years old, white | tail. branded lower half diamond on left ribs. |
| ADDRESS                    | Alix   |  |  | 3  | New Sarepta.   | Fincher Creek  | Bens Lake.  | Wetaskiwin.  | Clive   | 3 3   | 3 3  | 3 3  | 3 3  | Lacombe   | 3  |  |
| JUSTICE                    | Pinnell, F Alix  |  |  | 3  | Pithouse, H. G. New  | " " " Linc   | Richardson, S. A Bens   | Rosenroll, A. S Wetaskiwin.  | Ross, Thos. J   | 2 2   | 3 4  | 3 3  | 3 3  | Ross, John  |  |  |

| Ross, John Lacombe     | Lacombe           | Steer, yearling, red, not dehorned, underbit out of left ear, no  |   | _  | ~  | _                                |                                |
|------------------------|-------------------|---|---|--|--|----------------------------------|--------------------------------|
|                        |                   | Mare, pony, buckskin, about 12 years old, indistinct brand on   | Dec. 20, 1910                                   | Dec. 31, 1910  | Mar. 21, 1911  | 19.00                            | .35                            |
| 3 3                    | # B               | Steer red and white, no brand visible, yearling<br>Gelding, dark brown, white star in forehead, both hind fear with:  | June 5, 1910<br>Nov. 1910                       | Jan. 15, 1911<br>Jan. 31, 1911                                   | Apr. 5, 1911<br>Mar. 12, 1911                                    | 33.50                            | 17.25                          |
|                        | 2                 | 5 years old, weight about 700 pounds, no visible brand. Steer, red, 3 years old, white star on forehead, white tip on tail  | May 20, 1910                                    | Feb. 28, 1911  | Apr. 24, 1911  | 34.50                            | 13.30                          |
|                        |                   | Heifer, red and white, star in face, short tail, rising 2 years, no   |   | Feb. 15, 1911  | June 7, 1911   | 26.00                            | 5.65                           |
| Schantz, C             | Wetaskiwin.       | Visible Drand  Visible Drand  Heifer, 10an, 135ing 2 years, left hind leg broken, no visible brand.  Heifer, 1ight red, left hom broken, no brand visible.  Steer, black, short tail, 4 years old, botched brand on right ribs. | Spring, 1910<br>Oct. 1910<br>Oct. 1910          | Mar. 1911<br>Nav. 15, 1910<br>Nov. 15, 1910<br>Nov. 15, 1910     | June 9, 1911<br>June 10, 1911<br>Jan. 21, 1911<br>Jan. 21, 1911  | 16.50<br>20.50<br>33.00<br>50.00 | 3.05<br>6.80<br>12.80<br>20.80 |
| "Stacey, T. J.         | Fort Saskatchewan | thigh, script T on left hip.  Horse, boy, with him legs, while face, have across back.  Helps, brown, sported, with white, coming 2 veers old no beard  | Sept. 19, 1910<br>Dec. 1, 1910                  | Oct. 31, 1910<br>Dec. 31, 1910                                   | Jan. 21, 1911<br>June 24, 1911                                   | 20.00                            | 2.90<br>33.20                  |
|                        | 3                 | Heifer, brown, spotted, with white, coming 2 years old, no brand  | Nov. 15, 1910                                   | Feb. 28, 1911  | Oet. 5, 1911   | 12.25                            | .35                            |
| *                      | 3                 | Horse, bay, about 1,150 pounds, 4 years old, 3 white feet, no   | Nov. 15, 1910                                   | Feb. 28, 1911  | Oct. 5, 1911   | 12.25                            | .35                            |
| 9                      | 3                 | Brand visible<br>Horse, chestnut, about 800 pounds, very old and lame, branded  | Oct. 16, 1910                                   | Dec. 15, 1910  | Oct. 5, 1911   | 30.00                            | 17.10                          |
| Sheppard, H. N         | High River        | lazy B, V under, on right hip.  Cow, red, white on belly, left ear split, right ear cropped, no brand!  | Oct. 16, 1910                                   | Dec. 15, 1910  | Oct. 5, 1911   | 8.00                             | :                              |
| Stormont, J. J Duxbury | Duxbury           | visible, calf at foot.  Heifer, red, rising two years old, has horns, white spot on left.   | Oct. 1, 1910                                    | Nov. 30, 1910  | Feb. 8, 1911   | 43.00                            | 25.00                          |
|                        | 3                 | ×   |   | Dec. 31, 1910  | Feb. 16, 1911  | 18.50                            | 2.69                           |
| 3 3 3 3                | 2 2 2 3           | Visible dark red, yearling, no brand visible. Heifer, light red, yearling, no brand visible. Steer, dark red, 2 years old, tours, no brand visible. After, dark red, vets old, tours, no brand visible.                         | Nov. 13, 1910<br>Nov. 10, 1910<br>Nov. 10, 1910 | Dec. 31, 1910<br>Dec. 15, 1910<br>Dec. 15, 1910<br>Dec. 15, 1910 | Feb. 16, 1911<br>Feb. 18, 1911<br>Feb. 18, 1911<br>Feb. 18, 1911 | 18.25<br>17.25<br>13.75<br>27.50 | 3.05<br>2.59<br>12.59          |
| 3 3                    | 2 2               | visible Heifer, dark red, yearling, no brand visible Heifer, ed, yearling, white spot on right flank, spot left flank   | Nov. 8, 1910<br>Nov. 13, 1910                   | Dec. 15, 1910<br>Dec. 15, 1910                                   | Feb. 18, 1911<br>Feb. 18, 1911                                   | 25.75<br>16.00                   | 10.88                          |
| 3                      | 8                 | horned, no brand visible.  Horse, gelding, bay, 7 years old, about 1,000 pounds, right ear split, burned spot on left his branded 3 stemued badden.   | Nov. 30, 1910                                   | Dec. 31, 1910  | Feb. 22, 1911  | 18.00                            | 3.30                           |
|                        |                   | on right shoulder.  Heifer, rising two years old, horned, black, some white on helly.   | May 15, 1910                                    | Dec. 31, 1910  | Feb. 27, 1911  | 00.99                            | 48.53                          |
| Scott, RCarstairs      | Carstairs         | Heifer, roan, vastble.  Heifer, roan, yearling, tail slightly bobbed, no brand visible. Steer, dark red, two years old, snot on forehead white chest no.  | Dec. 29, 1910<br>Nov. 24, 1910                  | Feb. 15, 1911<br>Jan. 31, 1911                                   | Mar. 25, 1911<br>Mar. 25, 1911                                   | 29.75                            | 13.59                          |
|                        | 3 3               |   | Nov. 17, 1910<br>Nov. 20, 1910<br>Nov. 20, 1910 | Dec. 31, 1910<br>Jan. 14, 1911<br>Dec. 31, 1910                  | Mar. 3, 1911<br>Mar. 18, 1911<br>Mar. 18, 1911                   | 36.00<br>25.00<br>32.00          | 17.30<br>8.70<br>16.28         |

Sales of Espray Animals Under The Stray Animals Ordinance, from January 1st to November 30th, 1911.—Continued.

| Sent to<br>Depart-<br>ment | \$17.50   | 16.53  | 24.33<br>21.35   | 7.55  | 11.40<br>127.88  | 19.15   | 27.55  | 118.90  | 14.90   | 8.45  | 9.30  | 36.00   | :   | 1.30   | 15.00   |
|----------------------------|---|--|--|---|--|---|--|---|---|---|---|---|---|--|---|
| Proc'ds<br>of<br>Sale      | \$28.00   | 27.00  | 35.00<br>39.00   | 16.00   | 20.00<br>141.00  | 30.00   | 38.00  | 138.00  | 29.00   | 24.25   | 25.00   | 47.00   | 10.75   | 14.00<br>12.60   | 31.00   |
| Date of<br>Sale            | Jan. 11, 1911   | Jan. 11, 1911  | Jan. 11, 1911<br>Apr. 24, 1911   | Mar. 24, 1911   | Oct. 2, 1911<br>Feb. 6, 1911   | Feb. 6, 1911  | July 17, 1911  | Sept. 16, 1911  | June 10, 1911<br>June 10, 1911  | Mar. 25, 1911   | Mar. 25, 1911   | July 17, 1911   | Feb. 15, 1911   | Feb. 23, 1911<br>Feb. 23, 1911   | Mar. 10, 1911   |
| First Gazette<br>Notice    | Nov. 15, 1910   | Nov. 15, 1910  | Nov. 15, 1910<br>Jan. 31, 1911   | Jan. 15, 1911   | Mar. 31, 1911<br>Nov. 30, 1910   | Nov. 30, 1910   | May 15, 1910   | June 15, 1911   | Feb. 28, 1911<br>Feb. 28, 1911  | Jan. 15, 1911   | Jan. 15, 1911   | May 15, 1911  | Dec. 15, 1910   | Dec. 31, 1910<br>Dec. 31, 1910   | Dec. 31, 1910   |
| Date of<br>Capture         | Nov. 12, 1910   | Nov. 12, 1910  | Nov. 12, 1910<br>June 1910   | Jan. 7, 1911  | Jan. 7, 1911<br>Oct. 29, 1910  | Oct. 29, 1910   | Apr. 29, 1911  | May 1, 1911   | Nov. 1910<br>Nov. 1910  | Dec. 15, 1910   | Dec. 15, 1910   | Nov. 15, 1910   | Nov. 1, 1910  | Oct. 1910<br>Oct. 1910   |   |
| CLASS OF ANIMAL            | Cow, red, white face, 4 years old, branded R 4 attached to the tail of the R and a vertical bar attached to the bottom of the R, on left shoulder; calf at foot | Cow, brindle, 4 years old, left ear cropped and split, no brand visible, calf at foot. | Steer, dark red, 4 years old, star in face, branded round topped T, rowlock, half diamond over, and inverted U attached to bottom of stem of rowlock, on left shoulder.  Steer, black mulley, 5 years old, right ear cropped, no brand visible | inact, soile, aged, sea in face, on mich shoulder, J S, on left, total for thingh | Veigning, Day, Staff in Dreitsfall, sear On thigh chaigh, revenant foot on right stoudfer.  Mare, aged, branded D followed by horizontal bar connected.  Mare, cayuse, gray, foal at foot, branded J A on left shoulder. | Gelding, cayuse, gray, branded two split keys, points up, on left shoulder. | Horse, gray, pony, branded newspaper file with 1 S over, on left shoulder.  Mare, bay, white spot in forehead, about 1.250 pounds, about | 5 years old, branded a two-letter brand, on left thigh, very dim. | Cow, Hereford, long horns, waddle cut in throat about six years old, branded E L lower half diamond under, on left ribs (Saff vearing Hereford, no brand visible. | Steer, yearling, red, small ends of ears off, points of horns off, branded monogram T P followed by 9, with upper quarter circle under, on left hip | Heifer, red and white, white on forehead, about 2 years old, no brand visible | Mare, brown, stripe in face, hind legs white, about 800 pounds, 7 years old, no brand visible | Calf, red, ends of ears frozen off, some white underneath, no brand visible | Heifer, red and white spotted, coming 2 years old, lett ear cropped, no brand visible.  Colf. Pull red no brand visible. | Com, ord, 3 Years old, no horns, some white in face, white spot on runn, white underneath, notch in left ear, branded 8 reversed G, upper quarter circle over, on left hip, the first character of the brand looks like 8, but it has been bruned deep and blockhed, and it might be meant for a B. |
| ADDRESS                    | High River  |  | 2 E F F F F F F F F F F F F F F F F F F  | - Widelsyde   | Cochrane   |   | Scollard   |   | Haneyville  | Whitebrush  | 3   | ,   | Manfred   |  | 3   |
| JUSTICE                    | Sobey, R. E High  |  | 3 3  | Inorne, W. D  | Tweed J G  | 3   | Thompson C S Collard   | to the contract of  | Towns, A. A Haneyville  | Wells, Geo. A Whitebrush  | 3   | 3   | Wilcox, J. B Manfred  |  | 3   |

| Wilcox, J. B Mar                        | Manfred               | Heifer, red, 1 year old, 3 white legs, left ear cropped, no brand!   |   | _   | _                          | -                            | -                              |                  |
|---|-----------------------|--|---|---|----------------------------|------------------------------|--------------------------------|------------------|
| "                                       | 3                     | visible  | Nov. 19, 1910   | Dec. 31, 1910   | Mar. 10,                   | 1161                         | 14.00                          | :                |
| <i>a</i>                                | 3                     | marks or brands visible. Steer, roan, vearling, neck and head nearly red right ear notched   | Nov. 25, 1910   | Dec. 31, 1910   | Mar. 1,                    | 1, 1911   36                 | 36.00 20                       | 20.45            |
| Worsley, G. S Edmonton.                 | Edmonton              | deep, no brand visible. Gelding, bay, one hind foot white 1.000 bounds, white face, no   | Dec. 20, 1910   | Feb. 28, 1911   | May 6,                     | 6, 1911 20                   | 20.00                          | 3.15             |
| Wynn, Robt Knee Hill Valley             | Knee Hill Valley      | brand visible.  Heifer, red and white, 3 years old, branded upper half diamond   | Jan. 1, 1911  | Feb. 15, 1911   | Mar. 15,                   | 15, 1911 130                 | 30.00 114                      | 14.75            |
| Allison F F.                            | Tees                  | followed by B, with upper half diamond under, on right hip. Heifer, red and white, 2 years old, no brand visible. Steer, red and white 2 years old, hondred a was followed by the period of the period |   |   | Apr. 4,<br>Apr. 4,         | 4, 1911   19<br>4, 1911   19 | 19.00 3<br>19.00 3             | 3.35             |
| *                                       | 3                     | followed by spirit key, corks down, or night ribs. Steer, light red, 2 years old, branded R H monogram followed  | July 1, 1910  | Jan. 31, 1911   | Apr. 4,                    | 1911 32.                     | 8                              | 18.95            |
| Ainsworth, J.                           | Lamont                | by a script E or reversed 3, U upper half diamond over, on left ribs.  | Nov. 1, 1910  | Jan. 14, 1911   | Apr. 4, 1                  | 4, 1911 32                   | 32.00 18                       | 18.80            |
| Bertrand, F. G. Blackie.                | Blackie               | cow had call when the solution of a years old, no blank visible, low had call with Solution of a years old, no branched to be on left with vented with law 5 Roman   | Oct. 1910   | Dec. 31, 1910   | Apr. 15, 1                 | 15, 1911   26.               | 20                             | 13.65            |
| # T. F.                                 | 4                     | 2, on left hip<br>Steer, red, white face, branded J 8, on left ribs  | 64  | Feb. 15, 1911   |                            | 27, 1911 24.<br>6, 1911 25.  | 88                             | 11.45            |
| Burdge, Sidney                          | Ryley.<br>Berry Creek | Bull calt and a steer calt, both red, no brands visible. Gelding, bay, 4 years old, white stripe down face, lame in hind   | Dec. 7, 1910  |   | Feb. 21, 1                 |                              | 20                             |                  |
| ,                                       |                       | foot, branded monogram lazy M over F, on left shoulder Mare, cayuse' bay, white spot in face, aged about 16 years, branded   | 1907  | Apr. 29, 1911   | July. 5, 1                 | 5, 1911 20.                  | 00                             | 14.35            |
| Botsford, Oscar                         | Langdon               | monogram lazy M, F, on left shoulder, foal at foot.  Mare, brown, right front fetlock white, some white on right hind  | 1906  | Apr. 29, 1911   | July 5, 1                  | 5, 1911 20.                  | 00                             | 14.10            |
| 3                                       | 3                     | leg, about 14 years old, branded reversed S with bean under,<br>on right shoulder. Gelding, dark brown, left hind fetlock white, star in forehead,   | Oct. 25, 1910   | June 15, 1911   | Sept. 7, 1                 | 7, 1911 110.                 |                                | 96.80            |
| z                                       | 2                     | narrow white stripe on nose, about 10 years old, weight about 1,000 pounds, branded D 8 on right shoulder.   | Oct. 25, 1910   | June 15, 1911   | Sept. 7,1                  | 7, 1911 105.                 | 90                             | 91.97            |
| 3                                       | 3                     | where the first and  | Mar. 20, 1911   | June 15, 1911   | Oct. 5, 1                  | 5, 1911 100                  | 00                             | 88.50            |
| Brown, A. C                             | Wiste                 | brands visible.  Mare, bay, white star, white hind foot, four years old, no branu  | Mar. 20, 1911   | June 15, 1911   | Oct. 5, 1                  | 5, 1911 110.                 | 00                             | 98.25            |
| " " " " " " " " " " " " " " " " " " "   | ".<br>Trootu          | visible. Gelding, bay, white star, 3 years old, no brand visible. Stear years old, heardool by Dones.  | May<br>May  |   | Sept. 16, 1<br>Sept. 16, 1 | 1911 152.<br>1911 152.       | 200                            | 137.03<br>137.02 |
| *************************************** |                       | Ster roan 3 years old hearded rounded by D, upper Ster roan 3 years old hearded roanies followed by D.   | 1910  | Jan. 14, 1911   | Apr. 5, 1                  | 5, 1911 30.                  | .00 14                         | .50              |
| 3                                       | 3                     | ball diamond under, on left ribs.  Heiter, red. 2 vears old, branded inverted Y. O. har under on right.  | 1910  | Jan. 14, 1911   | Apr. 5, 1                  | 1911 20.                     | 00                             | 4.75             |
| *****                                   | 2 2 2 2 2             | no brand visible<br>no brand visible<br>ned , z years old, no brand visible  | 1910<br>1910<br>1911<br>1910<br>1910<br>Jan. 10, 1910 | Jan. 14, 1911<br>Jan. 14, 1911<br>Jan. 14, 1911<br>Jan. 14, 1911<br>Jan. 14, 1911 | က်က်က်က်ကိ                 |                              | 10.00<br>5.00<br>5.00<br>15.00 |                  |
|   |                       |  |   |   | 10, 1                      | _                            | _                              | 53.55            |

SALES OF ESTRAY ANIMALS UNDER THE STRAY ANIMALS ORDINANCE, FROM JANUARY 1ST TO NOVEMBER 30TH, 1911.—Continued.

| Sent to<br>Depart-<br>ment | \$13.05   | :  | 32.10  | :  | 4.70  | 14.55  | 12.72   | :  | 10.55   | 14.72   | 18.20   | 135.05   | 165.80   | 18.20  | 13.70   | 4.38                  |
|----------------------------|---|--|--|--|---|--|---|--|---|---|---|--|--|--|---|-----------------------|
| Proc'ds<br>of<br>Sale      | \$30.00   | 12.00  | 15.00<br>7.00<br>50.00<br>10.00  | 8.00   | 20.00   | 30.00  | 28.00   | 9.00   | 25.50   | 13.00<br>35.50<br>14.90   | 85.00<br>85.00  | 145.00   | 175.00   | 25.00  | 32.00   | 11.00                 |
| Date of<br>Sale            | May 10, 1911<br>May 10, 1911  | June 26, 1911  | June 30, 1911<br>June 26, 1911<br>May 15, 1911<br>May 29, 1911   |  | May 29, 1911<br>Aug. 24, 1911   | Aug. 24, 1911  | Aug. 24, 1911<br>May 15, 1911   | Feb. 18, 1911  | Feb. 18, 1911   | Mar. 25, 1911<br>May 25, 1911<br>Apr. 12, 1911  |   | Oct. 9, 1911   | Oct. 10, 1911  | Sept. 5, 1911  | Mar. 10, 1911   | June 2, 1911          |
| First Gazette<br>Notice    | Dec. 15, 1910<br>Dec. 15, 1910  |  | Jan. 31, 1911<br>Jan. 31, 1911<br>Mar. 15, 1911<br>Mar. 15, 1911   |  | Mar. 15, 1911<br>Mar. 15, 1911  | Mar. 15, 1911  | Mar. 15, 1911<br>Feb. 28, 1911  | Dec. 31, 1910  | Dec. 31, 1910   | Jan. 31, 1911<br>Jan. 31, 1911<br>Jan. 1911   | 25,<br>15,  | Aug. 15, 1911  | July 15, 1911  | May 31, 1911   | Dec. 31, 1910   | Mar. 15, 1911         |
| Date of<br>Capture         | 1910  | 1911   | 1910<br>1910<br>6, 1910<br>4, 1911   | 4, 1911  | 4, 1911   | 1, 1911  | 1, 1911   | 13, 1910   | 13, 1910  | 14, 1911<br>14, 1911<br>10, 1910  | 1, 1911   | 1, 1911  | 1, 1910  | 1, 1910  | 10, 1910  | 1911                  |
| Caj                        | Nov.<br>Nov.  | Jan.   | Jan.<br>Jan.<br>Dec.<br>Feb.   | Feb.   | Feb.  | Feb.   | Feb.<br>Oct.  | Dec.   | Dec.  | Jan.<br>Jan.<br>Oct.  | Apr.<br>June  | June   | July   | Dec.   | Apr.  | Feb.                  |
| CLASS OF ANIMAL            | Steer, roan, coming 3 years old, branded J T bar under, on left sade. Cow and calf, red, rangy, no brand visible. | there, red and white, coming 2 years old, branded K N lower half circle over, on right shoulder. | see, y seas out, the and white, branted to arrowned pointing. Calf, yearling, black, no brand visible, heifer. Geldy vearling, rough no brand visible, heifer. Calf yearling roun, no brand visible. Calf yearling roun, no brand visible. | com, yearing, sucaing cow, branded in 1 upper han unannond over, on left his years old, branded E T upper half diamond over, | Steer, red, 3 years old, undereut left ear, branded reversed R. followed by B monogram, on left ribs. | Script E Thalf diamond over, on left his control of the control of | cow, text, adouble y years old, tass norms, branced script D. I man Editational over, on left bit, and branch strain D. I man Editational over on left property. Steer, 2 years old, red, spoto on Delly, no branch years old, red, spoto on Delly, no branch years old, red, spoto on Delly, no branch years of the property | Prad district, Joseph Johnson on Agent man regi, mas norms, no Heifer black coming 3 years old has borns and bob tail no | brand visible. Heifer, calf, roan has horns, tip of left ear off, branded 11 11 5 | on right ribs.  Cow, deliorned, red, white faced, large, no brand visible  Herfer. 2 vears old very small roan deliorned no brand visible | Two pigs, white, no brands.  Mare Faray, very old, and stiff, in front, no brand visible Colling by the pixton of the pixton by the pixton of | Grand Visible Vision white in face, about 1,500 pounds, he brand Calding block etc. in forces of or 10 meers old about 1,000 | Colding, branded H 8 on left thigh.  Gelding, small have two white hind feet, star in foorehead no | brand visible. Cow, red, some white on belly, stubby horns, branded U T, the | top of the T being inside or running through the U, with under a little to the left, on left hip. | R on right shoulder   |
| ADDRESS                    | Trochu  |  | "<br>Chipman<br>Leo.   | 3  | 2 2   |  | Strome.   | 3  | 3   | "   |   | "  | 2  | Castor   | Loobend   |                       |
| JUSTICE                    | De Barathy, S   | 33   | Disher, Geo. E<br>Figarol, T. G.   | 3  | 3 3   |  | Hunter, W. E.   | 7  | 3   | " Kelly, J. F.  | Kealy, O. W.<br>Laycock, J. L.  | ***************************************  | 3  | Lyon, G. R. D  | I. widlew J. K. T. William  | toursent, or an every |

|   |   |  |  |   |   |   |   | 1110   | / 23.34  | 1.01  | 21 0  | 101  | , 1911   |   |  |   |                                  | 4.               |
|---|---|--|--|---|---|---|---|--|--|---|---|--|--|---|--|---|----------------------------------|------------------|
| 2.23  | 59.40<br>36.05  | 13.63  | 122.05   | 65.45   | ::  | 161.35  | 121.35                                    | 40.38  | 29.77  | 28.27   | 8.31  | 73.20  | 68.00<br>4.25<br>5.38<br>8.90  |   |  | :   |                                  | :                |
| 11.00   | 76.00<br>50.00  | 27.00  | 142.00   | 84.00   | 11.00   | 175.00  | 130.00                                    | 57.00  | 45.00  | 45.00   | 23.00   | 93.50  | 20.00<br>21.00<br>21.00<br>11.00   | 11.25<br>11.25<br>2.25<br>8.00  | 8.00   | 15.50   | 9.50<br>15.50<br>15.50           | 15.50            |
| 2, 1911   | 28, 1911<br>28, 1911  | 28, 1911   | 28, 1911   | 28, 1911  | 27, 1911<br>20, 1911  | 17, 1911  | 17, 1911                                  | 3, 1911  | 9, 1911  | 9, 1911   | 9, 1911   | 25, 1911   | 29, 1911<br>8, 1911<br>10, 1911<br>3, 1911<br>7, 1911  | 7, 1911<br>7, 1911<br>9, 1911<br>9, 1911  | 9, 1911<br>9, 1911   | 11, 1911  | 17, 1911<br>17, 1911<br>17, 1911 | 17, 1911         |
| June  | July<br>July  | July   | Feb.   | Feb.  | May   | June  | June                                      | June   | Mar.   | Mar.  | Mar.  | Mar.   | Mar.<br>Apr.<br>Aug.<br>June<br>Mar.   | Mar.<br>Mar.<br>Mar.  | Mar.<br>Mar.   | Apr.  | Apr.<br>Apr.<br>Apr.             | Apr.             |
| . 15, 1911  | 1910  | . 1910   | . 30, 1910   | . 30, 1910  | 31, 1910  | Mar. 15, 1911   | . 30, 1910                                | 28, 1911   | 31, 1910   | 31, 1910  | 31, 1910  | 15, 1910   | 31, 1911<br>10, 1910<br>1911<br>31, 1911<br>31, 1910   | 31, 1910<br>31, 1910<br>31, 1910<br>31, 1910  | 31, 1910<br>31, 1910   | 116, 1911   | 15, 1911<br>15, 1911<br>15, 1911 | 15, 1911         |
| Mar.  | Dec.<br>Dec.  | Dec.   | Nov.   | Nov.  | Dec.<br>Feb.  | Mar   | Sept.                                     | Feb.   | Dec.   | Dec.  | Dec.  | Dec.   | Jan.<br>Jan.<br>Jan.<br>Mar.<br>Dec.   | Dee.  | Dec.   | Feb.  | Feb.<br>Feb.<br>Feb.             | Feb.             |
| 1911  | 15, 1907<br>15, 1907  | 15, 1905   | 8, 1910  | 8, 1910   | 10, 1910<br>10, 1910  | 1, 1910   | 1, 1910                                   | 11, 1910   | 19, 1910   | 19, 1910  | 19, 1910  | 1, 1910  | 1, 1910<br>1, 1909<br>1, 1909<br>1, 1911<br>1, 1910  | 1, 1910<br>1, 1910<br>1, 1910<br>1, 1910  | 1, 1910<br>1, 1910   | 27, 1911  | 27, 1911<br>27, 1911<br>27, 1911 | 27, 1911         |
| Heb.  | Nov. 15,<br>Nov. 15,  | Nov.   | Aug.   | Aug.  | Dec.<br>Dec.  | Nov.  | Oet.                                      | Aug.   | Dec.   | Dec.  | Dec.  | Aug.   | Aug.<br>Dec.<br>Nov.<br>Feb.<br>Nov.   | Nov.<br>Nov.<br>Dec.  | Dec.<br>Dec.   | Jan.  | Jan.<br>Jan.<br>Jan.             | Jan.             |
| Ow, red, branded M Y on left thigh, 8 months old calf at foot | foot. foot. foot. forehead, branded R N branded T H on left s | Mare bay short 1100 nounds 10 years old broaded 9 be | with 60 under, on left thing, to years out, manned 2 can to the control of the co | by lazy H connected, on left thigh.  Bull. about 8 months old. all white on back red underneath | head, white tail, no brand visible.  Cow, about 8 years old, clear brindle, without mark or brand.  Mare, light gray, branded C V over Z S and an upper half circle | under the Z S, on left shoulder. The C is vented or might<br>be a slip of the branding iron.  Mane dark brown handed inverted I half dismond under on | Mare, gray six versical about 975 pounds. | Brookle faced dow and celf chair 7 years old bronded two ten | tical bars with bar through, grying it the form of the letter bar under brand. | brockle laced cow, and call, branded two vertical bars with through giving it the form of the letter H, bar under the britten and call the letter H, bar under the britten and call the letter H. | Cow and call, brockle faced, branded 1 1 bar over, on left<br>ribs, blotched brand on left hip.  Mare sorrel strine in face about 700 nounds branded E A on | left hip Gelding sorrel white face shout five years old branded mo | gram A lay G, on left shoulder.  Steer, blanck alout 24 years old, no brand visible Steer, red, branded 6 reversed L.  Steer, red and white, 2 years old, no brand visible Dult eath, red, whe m right ear, no brand visible | rene (all, back, whe in right ear, sput in lett ear, no brand<br>Nai oalf black, whe in right ear, no brand visible.  Bull calf, red, whe in right ear, no brand.  Heifer calf, red, when in right ear, no brand. | there can black, when might ear, white belly, up of taul off, bell on, no brand.  Heifer, calf, red, spot on belly, wire in right ear, no brand visible species. | Specification of the control of the | nd v                             | no brand visible |
| Lochend   | 3 3   | Castor   | *  | Andrew  | Hairy Hills   | 3   | Glengarden.                               | Nanton   | 3  |   | Ranfurly  | 3  | Penhold.<br>Wellsdale.<br>Dog Pound.<br>Chesterwold.   | 3333  | 3 3  |   | 4 3 3                            |                  |
| Laidlaw, J. K. Loche  | 3 3   | Matthias, E. H.                                      | *  | Mennie, R. H  | McGowan, C. T   | 34  | Poole, Edwin.                             | Reagh, F. E. Nanto   | 3  |   | Reid. Wm. J.  | 3  | Speakman, J<br>Stockwell, G. J.<br>Thomson, E. V.<br>Unland, M. H.   | 3 2 2 3   | 2.2  | 3   | \$ 3 3                           |                  |

Sales of Estray Annals Under The Stray Annals Ordinance, from January 18t to November 30th, 1911.—Continued.

| Sent to<br>Depart-<br>ment | \$11.20   | 34.58   | 25.65  | 8.28   | 62.05   | 90.53   | 12.00  | 129.00  | 51.50  | 19.25   | 24.35  | 25.12<br>18.30  | 16.68  | 119.10  | 14.67<br>9.88                  |   | 58.80  | 09.8          |
|----------------------------|---|---|--|--|---|---|--|---|--|---|--|---|--|---|--------------------------------|---|--|---------------|
| Proc'ds<br>of<br>Sale      | \$29.00   | 43.50   | 31.00  | 12.75  | 68.00   | 101.00  | 19.50  | 142.00  | 00.09  | 40.50   | 41.00  | 40.00<br>33.00<br>16.00   | 32.00  | 130.00<br>17.00   | 21.00<br>17.00                 |   | 71.00  | 15.00         |
| Date of<br>Sale            | Apr. 18, 1911   | Nov. 25, 1911   | Oct. 21, 1911  | Nov. 1, 1911   | Nov. 1, 1911<br>Nov. 1, 1911  |   | Nov. 20, 1911  | Nov. 18, 1911   | Nov. 20, 1911  | Nov. 14, 1911   | May 29, 1911   | May 8, 1911<br>May 8, 1911<br>May 8, 1911   | May 15, 1911   | Nov. 6, 1911<br>Oct. 21, 1911   | Oct. 21, 1911<br>Oct. 21, 1911 |   | Nov. 1, 1911   | Oct. 25, 1911 |
| First Gazette<br>Notice    | Feb. 28, 1911   | July 15, 1911   | June 30, 1911  | July 31, 1911  | July 31, 1911<br>July 31, 1911  | July 31, 1911   | Aug. 15, 1911  |   | Sept. 2, 1911  | Aug. 30, 1911   | Mar. 15, 1911  | Feb. 28, 1911<br>Feb. 28, 1911<br>Mar. 15, 1911   | Feb. 28, 1911  | Aug. 15, 1911<br>June 30, 1911  | June 30, 1911<br>June 15, 1911 |   | July 31, 1911  | June 15, 1911 |
| Date of<br>Capture         | Nov. 1910   | Oct. 1, 1910  | May 15, 1911   | Jan. 1911  | Jan. 1911<br>Jan. 1911  | 8   | June 20, 1911  | July 1910   | Aug. 20, 1911  | Dec. 1, 1910  | Jan. 1, 1911   | Nov. 15, 1910<br>Nov. 15, 1910<br>Nov. 15, 1910   | Feb. 1, 1911   | July 1, 1911<br>Apr. 3, 1911  | Apr. 3, 1911<br>1908           |   | July 15, 1911  |               |
| CLASS OF ANIMAL            | Steer, red and white, branded K or inverted L, on left hip. | cannot be made out. Gelding, chestnut, white forehead, two fore legs white, about 8 | years old, no brand.<br>Gelding, light sorrel, aged, blaze in face, branded 2 M bar over | on right hip.  Mare, brown, aged, quiet, branded monogram V inverted V, with | a short line slanting to left extending from top of figure to the<br>right, on left shoulder.<br>Gelding, black, four years old, no visible brand | Filly, brown, 3 years old, no brand visible. Gelding, dark brown, 8 years old, two white hind feet, star in | Mare, light brown, seven years old, weight 1,000 pounds, branded | left hip relets a rower last circle under, all on Herro her, block many than the circle under, all on | More hay, back points, whe cut on right front legs about 10 years old, branded an axe handle head up, on left shoulder | Branded a cross on right shoulder. Gelding roan ninto 5 years old about 750 nounds white face | Steer roan 3 years old branded on right hin a character that | looks like a leaf Steer, red and white, 3 years old, no brand visible Heiler, rosan, yearling, no brand visible | Cow, 5 years old, red, spots on flanks, little white dot on shoulder, branded 6 2 bar under, on right shoulder.  Mare bay shout 7 verse old star in face one hind foot white | branded J J on left shoulder ritt shoulder, 9 years old Cow, red, branded tobacco pouch on right shoulder, 9 years old Cow, red, millor 8 years old | Mare, bay, no brand visible    | Mare, bay, t years out, croosed iron teg, both time tegs write, about 1,250 pounds, branded W small upper half clamond over, on right shoulder, and a figure resembling an inverted | W, poorly made, on left shoulder.  Horse, bay, star in face, write cut in right hind foot, about 1,400 nounds, aged and very stiff in hind legs, dim hyand on left | shoulder      |
| ADDRESS.                   | Lewisville  | Greencourt  | Pine Lake  |  | 3 3   | Cróssfield  | Nateby   | Woterlines  | Ran  | Red Deer  |  | 3 3   | Magrath  | Aldersyde   |                                | Сосыгале  | Scollard   |               |
| JUSTICE                    | Wilcher, J. G.<br>Botsford, Oscar                           | Baly, H. Greencourt   | Charley, W. R Pine Lake.   |  | 3 2   | Davie, J. S   | Forster, J. W Nateby   | O H TIM   | Reid Wm I Ranfurly   | Rowell A T   Bed  | 7  |   | Stacev. Isa  | Thorne, W. B Aldersyde  | * T                            | 1 weed, J. G  | Thompson, C. S Scol  |               |

| 1.35  | 47.85   | 52.85   | 75.75<br>70.25  | 108.17  | 69.65  | 56.97<br>33.57  | 57.95   | 82.32   | 139.85   | 52.10  | 62.82   | 33.57  | 160.32<br>27.72  | 48.20<br>31.62  | 61.85   | 13.10                           | 16.02  | 17.00  | 37.47   |
|---|---|---|---|---|--|---|---|---|--|--|---|--|--|---|---|---------------------------------|--|--|---|
| 10.00   | 00.09   | 00.09   | 86.00   | 117.50 108.17   | 78.00  | 65.00   | 00.99   | 91.00   | 150.00   | 00.09  | 71.00   | 41.00  | 171.00   | 56.00<br>39.00  | 70.00   | 20.00                           | 23.00  | 24.00  | 45.00   |
| 16, 1911  | 28, 1911  | 25, 1911  | 9, 1911<br>9, 1911  | 8, 1911   | 8, 1911  | 8, 1911<br>8, 1911  | 8, 1911   | 8, 1911   | 8, 1911  | 8, 1911  | 8, 1911   | 8, 1911  | 8, 1911<br>8, 1911   | 8, 1911<br>8, 1911  | 8, 1911   | 8, 1911                         | 8, 1911  | 8, 1911  | 8, 1911                                       |
| Dec.  | Dec.  | Nov.  | Dec.<br>Dec.  | Dec.  | Dec:   | Dec.<br>Dec.  | Dec.  | Dec.  | Dec.   | Dec.   | Dec.  | Dec.   | Dec.<br>Dec.   | Dec.<br>Dec.  | Dec.  | Dec.                            | Dec.   | Dec.   | Dec.  |
| 30, 1911  | Sept. 15, 1911  | 30, 1911  | 31, 1911<br>31, 1911  | 15, 1911  | 15, 1911   | 15, 1911<br>15, 1911  | 15, 1911  | 15, 1911  | 15, 1911   | 15, 1911   | 15, 1911  | 15, 1911   | 15, 1911<br>15, 1911   | 15, 1911<br>15, 1911  | Aug. 15, 1911   | Aug. 15, 1911                   | Aug. 15, 1911  | Aug. 15, 1911  | Aug. 15, 1911                                 |
| Aug.  | Sept.   | Apr.  | Aug.  | July  | July   | July  | July  | July  | Aug.   | Aug.   | Aug. 15,  | Aug.   | Aug.   | Aug.  | Aug   | Aug.                            | Aug.   | Aug.   | Aug.  |
| 1910  | 25, 1911  | 1910  | 1911<br>1911  | 9,1911  | 9, 1911  | 9, 1911<br>9, 1911  | 9, 1911   | 9, 1911   | 9, 1911  | 9, 1911  | 9, 1911   | 9, 1911  | 9, 1911<br>9, 1911   | 9, 1911<br>9, 1911  | 9, 1911   | 9, 1911                         | 9, 1911  | 9, 1911  | 9, 1911                                       |
|   | July  | June  | Aug.<br>Aug.  | June  | June   | June  | June  | June  | June   | June   | June  | June   | June   | Jpne  | June  | June                            | June   | June   | June  |
| Gelding, sorrel, star in forehead, rope burn round neck, left foot white, badly cut on hind leg, no brand visible | Gelding, bay, white spot in face, two white hind feet, no brand visible | Gelding, gray, six years old, branded 9 A monogram, on left shoulder. | Mare, gray, 3 years old, one white hind foot, about 825 pounds, no brand visible.  Mare, gray, coming 4 years old, about 900 pounds, no brand visible | Mare, bory 18go, 19ma star, 20me where ted, botches is an on- branch brown two-cast-old horse cold by side bearing branch and white stee and strine on nose off hind foot | White, about 1,000 pounds, branded what looks like a three-time short handled fork, on left sounder.  Mare, mouse coloured, white stripe in face, off hind foot white, | white corner on mgh foot, branded C S on nght shoulder, and C sonnected, on left hip.  Gelding, brown, 8 years old, no brands visible | Filly, bay, 3 years old, white stripe in face, four white feet, branded monogram reversed E inverted T, on left hip | Mare, bay, white face, off hind foot white, aged, branded 17 bar over, on left thigh, also one yearing colt by side | shoulder, the P has a bar through the bottom of it which makes it look a little like P X monogram.  Man event white foot corn white foot the side mare branded | many parameter and project your feature relock of possible and which there as cross with U close under, on left shoulder, and what looks like a hook followed by reversed L, on right shoulder.  Pony manyer mouse coloured white strine in face 3 white feet. | indistinct brand on right shoulder, looks like Y, two-year-old by side. | Gelding, chestnut, half white face, two hind feet white, crocked ankle behind, branded 9 P on right shoulder | what looks like a figure 7 stanting very much to the left, on right shoulder.  Pony, gelding, aged, white, branded N C on left hip | Gelding, aged, chestnut, about 15½ hands nigh, branded J G Bar over, on left shoulder.  Mare, mouse coloured, aged, no visible brands, colt by side | Mare, brown, two white hind feet, white star, 5 or 6 years old, branded an imperfect 7 on left shoulder, cold by side | diamond over, on right shoulder | Gelding, black, aged, branded reversed E N m<br>shoulder | Gelding, bay, aged, white star, nigh hind foot white, white spot on off fore foot, branded reversed S on right hip | Gelding, buckskin, pony, black points, some w |
| De Winton   | Namao   | Youngstown  | Holden  | Calgary   |  | 3   | ,   | 2 2   | *  |  |   | 3 3  | 2  | 3 32  | *   | :                               |  | 3  |   |
| 202   | Henry   |   | Wm  | us, A   |  |   |   |   |  |  |   |  |  |   |   |                                 |  |  |   |

SALES OF ESTRAY ANIMALS UNDER THE STRAY ANIMALS ORDINANCE, FROM JANUARY 1ST TO NOVEMBER 30TH, 1911.—Continued.

| Sent to<br>Depart-<br>ment | \$93.60<br>81.31  | 73.75  | 55.95  | 22.80   | 28.14  | 108.50   | 14.35   | 5.94   | 2.47  | 6.13   | 7.31  | 18.13   | 82.05  | 23.50                        |
|----------------------------|---|--|--|---|--|--|---|--|---|--|---|---|--|------------------------------|
| Proc'ds<br>of<br>Sale      | 105.00<br>92.00   | 84.50  | 00.99  | 32.00   | 40.50  | 117.00   | 31.00   | 26.00  | 13.25<br>16.00<br>16.00   | 23.00<br>9.00<br>18.00   | 21.00<br>36.00  | 36.00   | 101.00   | 34.00                        |
| Date of<br>Sale            | Nov. 25, 1911<br>Nov. 25, 1911  | Nov. 25, 1911  | Nov. 25, 1911  | Nov. 25, 1911   | Dec. 9, 1911   | Dec. 22, 1911  | Nov. 30, 1911   | Mar. 28, 1911<br>Apr. 25, 1911   | July 5, 1911<br>Feb. 25, 1911<br>Feb. 25, 1911  | Mar. 7, 1911<br>Mar. 7, 1911<br>Mar. 16, 1911  | Apr. 15, 1911<br>Apr. 15, 1911  | Apr. 15, 1911   | Nov. 30, 1911  | Dec. 22, 1911                |
| First Gazette<br>Notice    | June 30, 1911<br>June 30, 1911  | June 30, 1911  | June 30, 1911  | June 30, 1911   | Sept. 30, 1911   | Sept. 15, 1911   | Sept. 30, 1911  | Jan. 14, 1911<br>Feb. 28, 1911   | Apr. 29, 1911<br>Dec. 15, 1910<br>Dec. 15, 1910   | Dec. 31, 1910<br>Dec. 31, 1910<br>Dec. 31, 1910  | Jan. 31, 1911<br>Jan. 31, 1911  | Jan. 31, 1911   | Aug. 15, 1911  | Oct. 15, 1911                |
| Date of<br>Capture         | June 10, 1911<br>June 10, 1911  | June 10, 1911  | June 10, 1911  | June 10, 1911   | July 1, 1911   | Aug. 1, 1911   | June 14, 1911   | Nov. 12, 1910<br>Nov. 2, 1910  | Dec. 1, 1910<br>Nov. 15, 1910<br>Nov. 15, 1910  | Nov. 15, 1910<br>Nov. 15, 1910<br>Nov. 15, 1910  | Dec. 15, 1910<br>Dec. 15, 1910  | Jan. 5, 1911  | Apr. 11, 1911  | Sept. 26, 1911               |
| CLASS OF ANIMAL            | Horse, bay, four white feet, spot in face, about 3 years old, branded F. B. on right shoulder.  Mare, white, about 1,200 pounds, no brand visible.  Mare white, about 1,200 pounds, no brand visible. | brand visible. Mare, about 1,000 pounds, branded a cross with a horizontal | Mare, bay, stripe in face, left hind foot white, crippled in front feet, about 1 200 nounds seven users old broaded N tollowed | by horizontal bar and by a script E, on left thigh. Gelding, gray, branded 6 with lazy B over on right flank also | T H, on left shoulder.  Mare, buckskin, about 950 pounds, about 4 years old no brand | Gelding, sorrel, 7 years old, left hind foot white, spot on right hind, sorrel, 7 years old, left hind foot white, spot on right hind foot, forefoot frimmed branded P. 7 connected on right shoulder and P. Z with hear on right shoulder and P. Z with hear on right shoulder. | Steer, light van, rising 3 years old, red meek, and head, spot on forehead, short horns. lower part of right ear cut no hean. | Heiter, red and white, about 14 years old, no brand visible Heiter, red, about 14 years old, star in forehead, white on each | Leiter, red, yearling, ears and fail of the leiter, red, yearling, ears and fail off.  Heifer, red, yearling, ears and fail off.  Heifer, red, yearling, ears and fail off. | Heifl, on left shoulder.  Heifl, on left shockle faced.  Geiler, call, red, brockle faced.  Geiler, each and white, yearling, branded R. X. U. on left ribs  Gw. red and white 6 years old sulft right ear. branded K honoring | inverted Y left ribs.  Steer, red and white, yearling, white face, no brand visible.  Cow and eaff, cow red and white, snotted, mulley, 6 years old | no brand visible, calf black and white spotted, calf at foot. Gelding, black, about two years old, star in forehead, and string | in forehead, no brand visible. Gelding, pony, dark bay, 14 hands high, roached mane and tail | 900 pounds, no brand visible |
| ADDRESS                    | Burdett   | 4  | 3  | Hastings Coulee   | Bruce  | Leduc  | Markerville:  | 3 3  | Erskine.  | 3 2 3  | 3 2   | Vegreville  | Medicine Hat   |                              |
| JUSTICE                    | Fletcher, R. W Burdett.   | \$   | :<br>:<br>:<br>:   | Hastings, H. I Hastings Coulee.   | Heath, B. M Bruce  | Mundy, Jas Leduc   | Markerberg, D Markerville   | 3 3  | Morton, C. B. Erskine.  | 3 3 3  | 3 3   | McIntyre, N   | Parker, W  |                              |

| 76.   | 9.08  | 43.50   |
|---|---|---|
| 13.50   | 15.00   | 59.00   |
| 1910   Mar. 15, 1911   Dec. 21, 1911   13.50  | . 1, 1911 July 15, 1911 Dec. 22, 1911 15.00 9.08                                      | Dec. 27, 1911   |
| Mar. 15, 1911   | July 15, 1911   | Sept. 15, 1911  |
| 1910  | 1, 1911   | 15, 1911  |
| Feb.  |   | Aug   |
| veet, J. G.  Nanton Steer calf, red and white, no brand visible Steer with Steer red, branded an impretect circle scancely ornpleted with a short dash under, and a lower half circle under the dash. | yndham, A. Okotoks. Steer, red, 5 years old, branded C F on right hip, and reverse of | Orang on right ribs   Aug 15, 1911   Sept. 15, 1911   Dec. 27, 1911   59.00   43.50 |

#### ENTIRE ANIMALS.

This year there were 51 estray bulls and 29 estray stallions captured and duly advertised in the official Gazette. Of this number 14 bulls and 10 stallions were sold, the remainder being redeemed by the owners.

The balance of the proceeds of the sales of these animals is held in trust in the same manner as under The Stray Animals Ordi-

nance.

The following is a list of the sales conducted during the year:

SALES OF ESTRAY ENTIRE ANIMALS UNDER THE ENTIRE ANIMALS ORDINANCE FROM JANUARY 18T TO NOVEMBER 15TH, 1911.

|                            |  |  |  | I.  | INI  | NUAL   | KEPOI   | εт,                                  | 1911   |  |  |  |   |   | 4                                |
|----------------------------|--|--|--|---|--|--|---|--------------------------------------|--|--|--|--|---|---|----------------------------------|
| Sent to<br>Depart-<br>ment |  | 8.80   | :  | :   | :  | 32.03  | 47.75<br>25.75<br>48.90   | 7.22                                 | 3.35   | 36.45  | :  | 23.80  | 8.85  | 17.55   | 12.15                            |
| Proc'ds<br>of<br>Sale      | \$12.00  | 25.00  | 14.00  | 16.00   | 10.00  | 50.00<br>6.00<br>20.00   | 70.00<br>46.00<br>74.00   | 17.50                                | 19.00<br>18.00<br>17.50  | 72.00  | 10.00  | 50.00  | 12.00<br>21.00<br>27.00   | 35.00   | 29.00                            |
| Date of Sale               | Mar. 8, 1911   | Jan. 28, 1911  | Apr. 3, 1911   | May 4, 1911   | June 17, 1911  | July 19, 1911<br>Apr. 17, 1911<br>Feb. 11, 1911  | July 22, 1911<br>Feb. 4, 1911<br>June 26, 1911  | Mar. 31, 1911<br>July 8, 1911        | Apr. 4, 1911<br>July 15, 1911<br>Apr. 4, 1911  | Oct. 10, 1911  | June 17, 1911  | June 9, 1911   | July 26, 1911<br>May 24, 1911<br>Aug. 31, 1911  | July 14, 1911   | Nov. 23, 1911                    |
| First Gazette<br>Notice    | Jan. 30, 1911  | Dec. 31, 1910  | Jan. 31, 1911  | Mar. 31, 1911   | Feb. 28, 1911  | June 30, 1911<br>Jan. 1911<br>Nov. 15, 1910  | June 15, 1911<br>Jan. 15, 1911  | Jan. 31, 1911<br>June 1911           | May 15, 1911<br>Jan. 31, 1911  | July 15, 1911  | Feb. 28, 1911  | Apr. 29, 1911  | May 31, 1911<br>Dec. 15, 1910<br>July 15, 1911  | June 30, 1911   | Sept. 15, 1911                   |
| Date of<br>Capture         | Jan. 15, 1911  | Dec. 18, 1910  | Jan. 4, 1911   | Mar. 4, 1911  | Dec. 12, 1910  | June 14, 1911<br>Dec. 24, 1910<br>Sept. 1910   | June 2, 1911<br>Aug. 1, 1910<br>May 15, 1911  | Jan. 26,1911<br>Apr. 1911            | May 8, 1911<br>Nov. 1, 1910  | June 26, 1911  | Dec. 12, 1910  | Apr. 1, 1911   | May 1, 1911<br>Oct. 1, 1910<br>June 8, 1911   | June 1, 1911  | July 20, 1911                    |
| CLASS OF ANIMAL            | Bull, red, one year old, white face and belly, right ear splif, no | Rull cal front foot, about 750 pounds.  Rull cal front foot, about 750 pounds. | no brand visible.  Rull red white on helly noted in right on about 4 months of the control of th | brand visible  Bull (alf about 10 months old white red head and need no brand | Visible Stallion bay 2 years old two white feet white face branded 2 | inside of a circle, on right hip.  Bull calf, yearling, spotted red and white, bull, no brand visible. Bull, red, yearling, no brand visible. Stallon, non grav. 2 years old black feet white star in forehead | Stailon, black, 13 years old, no brand visible. Stailon, black, 13 years old, no brand visible, no white markings. Stailon, roan, about 2 years old, no brand visible. Bull, light red, yearling, branded U followed by an arrow head | Stallion, yearling, no brand visible | Bull, red and white, one year old, no brand visible. Bull, red, two years old, no brand visible. Bull, small et querling, branded reversed FW on left ribs. Stallon, black, 2 years old, white, sone in face branded norther | The special property of the sp | Visible.  Stallion, sorrel, about 3 years old, white spot on forehead and "ose white lind lear, weight about 700 nounds no heard." | Bull, 2 years old, iron gray lined with white, thick stubby horns. | Lo brand visible  Bull, 2 years of low set, red and white, spotted, no brand visible Bull, Hereford, no brand visible Stalline, have four years old about 950 nounds, branded 4 small | on left shoulder with half diamond above and below.  Bull, red and white, short horn, ring in hose, 4 or 5 years old.  Skallion, ask steel grav, two vears old hearded inverted Walant. | ng with lower half diamond under |
| ADDRESS                    | Bardo  |  | 3  | 3   | Daysland   |  |   | Whitebrush                           | Nanton<br>Tees<br>Langdon.   |  | Camrose  | Andrew   | Hairy Hills.<br>Arrowwood<br>Penhold.   | Millet  |                                  |
| JUSTICE                    | Anderson, P. B   | Campbell. Fred   | 19   | 32  | Davidson, D.   | Davies, C. A.<br>Fetherston, T. W.<br>Grey, W. B.  | Mortimer, S. Richardson, S. A. Sobey, R. E.   | Wells, Geo. A.                       | White, W. F. Allison, F. E. Botsford, O.   | Campbell, Fred   | Layton, F. P   | Mennie, R. H   | McGowan, C. T.<br>Oliffe, W. H.<br>Walker, A. W.  | West, John W.   |                                  |

#### POUND DISTRICTS.

During the year great interest was taken in the organizing of pound districts throughout that part of the province in which the Ordinance is applicable. Pounds were created in a large number of districts during the past twelve months, and in addition to this a number of applications have been received requesting that the provisions of the Ordinance be put in operation in new districts.

The following is a list of the pound districts organized during

the year 1911:

No. 1—Township 4, range 12, and townships 5 and 6, range 11, all west of the 4th meridian.

No 2—Township 39, range 1, west of the 5th meridian. No. 3—Township 30, range 24, west of the 4th meridian. No. 4—Township 50, range 23, west of the 4th meridian.
No. 5—Township 13, range 27, west of the 4th meridian.
No. 6—Township 19, range 27, west of the 4th meridian.
No. 7—Township 19, range 20, west of the 4th meridian.

No. 8—Township 21, range 26, sections 1 to 24 on the south side of the Big. Bow River, west of the 4th meridian.

No. 9—Township 16, range 29, sections 8 and 9, west of the 4th meridian.
No. 10—Township 30, range 25, west of the 4th meridian.
No. 11—Township 19, range 21, west of the 4th meridian.
No. 12—Townships 19 and 20, range 25, west of the 4th meridian.
No. 13—That part of townships 8 and 9 west of the Belly River, in range 22,

west of the 4th meridian. No. 14—Township 12, range 19, west of the 4th meridian.

No. 14—Township 12, range 13, west of the 4th meridian.
No. 15—Townships 31 and 32, ranges 5 and 6, west of the 4th meridian.
No. 17—Townships 47 and 48, range 13, west of the 4th meridian.
No. 18—Township 13, range 26, west of the 4th meridian.
No. 19—Townships 15 and 16, ranges 1 and 2, west of the 4th meridian.

No. 20—Township 28, range 3, west of the 4th meridian. No. 22—Township 35, range 24, west of the 4th meridian.
No. 22—Township 13, range 17, west of the 4th meridian.
No. 23—Township 28, range 1, west of the 4th meridian.
No. 24—Township 32 and 33, ranges 1 and 2, and township 34, ranges 2 and

3, all west of the 4th meridian.

No. 25—Townships 3, 4, 5 and 6, range 10, and township 6, range 9, all west of the 4th meridian.

No. 26—Township 8, range 10, west of the 4th meridian. No. 27—Township 11, range 19, west of the 4th meridian. No. 27—Township 11, range 19, west of the 4th meridian.
No. 28—Township 8, range 11, west of the 4th meridian.
No. 30—Township 3, range 11, west of the 4th meridian.
No. 30—Township 28, range 28, west of the 4th meridian.
No. 31—Township 32, range 24, west of the 4th meridian.
No. 32—Township 12, ranges 17 and 18, west of the 4th meridian.
No. 33—Township 5, and south half of township 6, range 28, west of the 4th

meridian.

No. 34—Townships 12, 13 and 14, ranges 7 and 8, west of the 4th meridian. No. 35—Township 28, range 10, west of the 4th meridian.

No. 36—Township 39, range 1, west of the 5th meridian.

There were taken up under the Ordinance in the various pound districts during the year, 236 head of cattle, 163 head of horses and one pig. These were advertised in the official Gazette in the regular Of this number only 29 head of horses, 41 head of cattle and one pig were sold. The remainder were claimed by their owners.

The proceeds of these sales have been deposited with the department in a trust account and may be obtained by the owner upon his producing satisfactory proof of ownership.

The table following gives a description of the animals sold under the Ordinance.

SALES OF IMPOUNDED ANIMALS UNDER THE POUND DISTRICT ORDINANCE, FROM JANUARY 181 TO NOVEMBER 367H, 1911.

| Sent to<br>Depart-<br>ment | \$18.10   | 9.50   | 12.40  | 9.50   | 18.83                          | .80   | 8.60   | 3.60   | 10.40   | 15.94   | :  | :   | 49.00  | 69.48   | 12.57  | 23.20         | 22.32         | 18.38          |
|----------------------------|---|--|--|--|--------------------------------|---|--|--|---|---|--|---|--|---|--|---------------|---------------|----------------|
| Proc'ds<br>of<br>Sale      | \$27.50   | 26.00  | 20.00  | 17.00  | 29.00                          | 10.00   | 18.00<br>16.00   | 13.00  | 19.50   | 28.50   | 11.00  | 5.00  | 60.00  | 81.00   | 20.00  | 31,00         | 30.00         | 28.50          |
| Date of<br>Sale            | Mar. 24, 1911   | Feb. 3, 1911   | Mar. 31, 1911  | Mar. 31, 1911  | Aug. 9, 1911                   | Aug. 26, 1911   | Aug. 26, 1911<br>Feb. 20, 1911   | Mar. 3, 1911   | Mar. 3, 1911  | Mar. 16, 1911   | May 1, 1911  | July 17, 1911   | Aug. 16, 1911  | Aug. 16, 1911   | Aug. 31, 1911  | Aug. 31, 1911 | Aug. 31, 1911 | Sept. 21, 1911 |
| First Gazette<br>Notice    | Feb. 15, 1911   | Dec. 15, 1910  | Feb. 28, 1911  | Feb. 28, 1911  | July 15, 1911                  | July 31, 1911   | July 31, 1911<br>Jan. 14, 1911   | Jan. 31, 1911  | Jan. 31, 1911   | Jan. 14, 1911   | Mar. 31, 1911  | June 15, 1911   | July 15, 1911  | July 15, 1911   | July 31, 1911  | July 31, 1911 | July 31, 1911 | Aug. 15, 1911  |
| Date of<br>Capture         | Feb. 2  | Dec. 8, 1910   | Jan. 27, 1911  | Jan. 27, 1911  | July 2, 1911                   | July 19, 1911   | July '19, 1911<br>Jan. 4, 1911   | Jan. 11, 1911  | Jan. 11, 1911   | Jan. 4, 1911  | Jan. 28, 1911  | June 3, 1911  | June 21, 1911  | June 21, 1911   | July 20, 1911  | July 20, 1911 | July 20, 1911 | Aug. 4, 1911   |
| CLASS OF ANIMAL            | Steer, light roan, branded indistinctly on right ribs, might be a Cow, Spotted, red and white, left ear notched on under side about | Steer, black, mulley, branded what looks like a lazy T, small D, | cazy J, under the 1, and a right quarter circle under the J, on right ribs.  Cow, spotted red and white, about 8 years old, branded with a | Cow, red with white face and le s, branded U Q with lower half | eft shoulde .<br>ace and leg , | Steer, red, branded 4 followed by a vertical split key, points up | Heifer, red roan, coming 2 years old, branded O H on right ribs. Steer, white on flanks, also white on forehead, mulley coming 9 | Heiter, red, coming 2 years old, white under bely, right entight underbill out of left, ear, branded has with more a complete of the control of left, ear, branded has with more ball of the control of left, ear, branded has with more ball of left, ear, branded has been selected as well as | Over, on left ribs.  Cow, white, red neck, mulley, branded K K, bar under, high up on left shoulder, and blotched brand low down on left shoulds. | white faced calf at foot.  Steer, red, about 3 or 4 years old, branded J P on right thigh and | Mare, black or brown, white spot on forehead, crippled in hind | Filly, bay, two years old, white stripe in face, both hind and left | Front foot white, no brands visible.  Mere, bay, or brown, about 900 pounds, white spot on forelead, white snip on nose, left hind foot white and on forelead, | brand visible, has colt at foot.  Heifer, red, white belly, yearling, left ear cropped, underbit in | Cow, red, about 3 years old, white under belly branded a figure that looks like a small circle followed by the state of the second control of the second c |               |               |                |
| ADDRESS                    | Crossfield  | 3  | 3  |  |                                |   | Raymond  |  |   |   | 3  |   |  | 3   | 3  |               | *             |                |
| POUNDKEEPER                | Outkes, HRodgers, A. E  | 2  |  |  | 3                              |   | Rodeback, J  | :  |   |   |  |   |  | :   | 3  |               |               |                |

SALES OF IMPOUNDED ANIMALS UNDER THE POUND DISTRICT ORDINANCE, FROM JANUARY 18T LO NOVEMBER 30TH, 1911.

| Sent to<br>Depart-<br>ment | \$ 7.05                                 | 19.55  | 18.45<br>13.85                    | 34.75  | 69.85  | 25.00  | 19.05  | 2.50   | 14.25   | 73.85   | 3.17  | 12.07   | 6.54  | 7.52  | 86.8  | .21  |
|----------------------------|---|--|-----------------------------------|--|--|--|--|--|---|---|---|---|---|---|---|--|
| Proc'ds<br>of<br>Sale      | \$17.25                                 | 30.00  | 40.00                             | 45.00  | 81.00<br>28.00   | 40.50  | 30.00  | 13.00  | 40.00   | 91,00   | 21.00<br>25.00  | 25.00<br>5.00<br>18.00  | 9.00<br>15.00<br>15.00  | 7.00  | 17.50   | 8.50   |
| Date of<br>Sale            | Sept. 30, 1911                          | Jan. 28, 1911  | June 29, 1911<br>July 28, 1911    | Aug. 28, 1911  | Aug. 28, 1911<br>July 19, 1911   | June 6, 1911   | Sept. 13, 1911   | Sept. 13, 1911   | Sept. 18, 1911  | Sept. 18, 1911  | Feb. 13, 1911<br>Mar. 15, 1911  | Mar. 15, 1911<br>Mar. 25, 1911<br>Mar. 1, 1911  | Mar. 1, 1911<br>Mar. 1, 1911<br>Mar. 1, 1911  | Mar. 1, 1911<br>Mar. 1, 1911  | Mar. 1, 1911  | Mar. 1, 1911   |
| First Gazette<br>Notice    | Aug. 31, 1911                           | Dec. 31, 1910  | May 31, 1911   5                  | July 31, 1911  | July 31, 1911   May 31, 1911   | May 31, 1911   | Aug. 15, 1911  | Aug. 15, 1911  | July 31, 1911   | July 31, 1911   | Jan. 15, 1911<br>Feb. 15, 1911  | Jan. 31, 1911<br>Feb. 15, 1911<br>Jan. 14, 1911   | Jan. 14, 1911<br>Jan. 14, 1911<br>Jan. 14, 1911   | Jan. 14, 1911<br>Jan. 14, 1911  | Jan. 14, 1911   | Jan. 14, 1911  |
| Date of F                  | Aug. 10, 1911 A                         | Dec. 18, 1910   L  | May 16, 1911 N<br>June 12, 1911 J | July 18, 1911  | July 18, 1911 J<br>May 27, 1911 N  | May 9, 1911 N  | July. 22, 1911   | July 22, 1911  | July 9, 1911  | July 9,1911   | Dec. 6, 1910 Jan. 20, 1911 I  | Jan. 11, 1911 Jan. Dec. 28, 1910  | Dec. 28, 1910<br>Dec. 28, 1910<br>Dec. 28, 1910   | Dec. 28, 1910<br>Dec. 28, 1910  | Dec. 28, 1910   | Dec. 28, 1910  |
| CLASS OF ANIMAL            | Pig. white, about 150 pounds, no brands | Cow, red, with white face, branded bar followed by lazy V connected to the H, on left ribs |                                   | Gelding, bay, two white hind feet, small white stripe in forehead, about 11 or 12 years old, branded 6 on left shoulder, also 6 on right side of neck.  This can be considered to the control of the cont | 6 or 7 years old, branded J with reversed 3 over connected, on right shoulder, and F followed by J connected, with bar under, on right hip.  Steer red and white branded H E on right hip. | Stallion, about 18 months old, sorrel, branded lazy key on right | Gelding, gray, about 20 years old, branded a figure that looks like a lazy S followed by O connected, on left thigh. | Gelding, buckskin, about 12 years old, branded pistol on left shoulder, stripped N on left thigh, right fore ankle broken. | Stallion, bay, two years old, white hind feet, branded lazy B on right hip. | Mare, dark brown, 7 or 8 years old, branded a L lazy 7 monogram, 3 vertical bars under, on right thigh. | Steer, red, small, two years old, white on belly, about an inch broken off of each form, no brand visible. Bull, dark red, six years old, no brand visible. | Steer, red, white face, long horms, 4 years old, branded indistinctly on night bip, might be a figure 2. Steer, red, 8 months old, branded P 2 bar over, on right ribs.  Heifer, red, 8 months old, no brand visible. | Seer, dark red, one year old, white face, branded reversed L capital T bar, on left ribs.  Calf, roan, nearly white, bull, no brand visible  Car, year, nearly white, bull, no brand visible  Car, years old white laws, branded O on right hip | Steer, red, I year old, white face, warts around eyes, no brand Wilsble Heifer, red, 2 vears old, indistinct brand on left ribs | Steer, red, I year old, large white spot on left ribs, short horns, no brand visible. | Heifer calf, 8 months old, black and white, with white face, no brand visible. |
| ADDRESS                    | Raymond                                 | Magrath  | Sweet Valley                      |  | Bosemond   | Wheat Centre   |  | 3  | Lost Lake   |   | Dinton.   | 2 2 2   | 3 3 3   | * *   | ,   | 3  |
| POUNDKEEPER                | Rodeback, J.                            |  | Boundhmon O H                     | naugiman,  | F 1-3%   | Skelton, M. W.   | 3  | ***  | Martin, Wm Lost   |   | Orr, Andrew W Dinton.   | 3 3 3   |   | 8 3   | 3   | 3  |

| 1.10   | 1:10   | 1.10                                 | 1.10   | :   | 40.00<br>*<br>*   | *   | *  | * * *   | *  | * * *   | * * *  | *   | 24.50<br>30.25   | 166.90  | 7.25                |
|--|--|--------------------------------------|--|---|---|---|--|---|--|---|--|---|--|---|---------------------|
| 8.00   | 8.00   | 8.00                                 | 8.00   | 8.00  | 53.00<br>117.00<br>110.00   | 146.00  | 1 7.00   | 112.00<br>75.00<br>100.00   | 6.25   | 52.00<br>166.00<br>66.00  | 127.00<br>121.00<br>65.00  | 35.00   | 45.00<br>39.00   | 187.50  | 27.50               |
| May 13, 1911   | 13, 1911   | 13, 1911                             | 13, 1911   | 13, 1911  | 10, 1911<br>28, 1911<br>28, 1911  | 28, 1911  | 28, 1911   | 28, 1911<br>28, 1911<br>28, 1911  | 28, 1911   | 28, 1911<br>28, 1911<br>28, 1911  | 28, 1911<br>28, 1911<br>28, 1911   | 28, 1911  | 31, 1911<br>30, 1911   | 13, 1911  | 28, 1911            |
| May  | May  | May                                  | May  | July.   | Oet.  | Oct.  | Oct.   | 0et.<br>0et.  | Oct.   | 0et.<br>0et.  | 0et.<br>0et.   | Oet.  | Oct.<br>Dec.   | Dec.  | Dec.                |
| 4, 1911   Apr. 15, 1911                                    | Apr. 15, 1911  | Apr. 15, 1911                        | Apr. 15, 1911  | June 15, 1911   | Sept. 15, 1911<br>Sept. 30, 1911<br>Sept. 30, 1911  | Sept. 30, 1911  | Sept. 30, 1911   | Sept. 30, 1911<br>Sept. 30, 1911<br>Sept. 30, 1911  | Sept. 30, 1911   | Sept. 30, 1911<br>Sept. 30, 1911<br>Sept. 30, 1911  | Sept. 30, 1911<br>Sept. 30, 1911<br>Sept. 30, 1911   | Sept. 30, 1911  | Sept. 30, 1911   | Oct. 14, 1911   | Nov. 30, 1911       |
| Apr. 4, 1911   | Apr. 4, 1911   | Apr. 4, 1911                         | Apr. 8, 1911   | June 7, 1911  | Aug. 16, 1911<br>Sept. 1911<br>Sept. 1911   | Sept. 19, 1911  | Sept. 19, 1911   | Sept. 19, 1911<br>Sept. 19, 1911<br>Sept. 19, 1911  | Sept. 19, 1911   | Sept. 19, 1911<br>Sept. 19, 1911<br>Sept. 19, 1911  | Sept. 19, 1911<br>Sept. 19, 1911<br>Sept. 19, 1911   | Sept. 19, 1911  | Sept. 15, 1911<br>Nov. 22, 1911  | Sept. 24, 1911  | Nov. 13, 1911       |
| Steer, blue roan, long horns, 4 years old, no brand viable | brand, on left shoulder.  Cow, red, borns down, two dewlaps, indistinct brand on left rihs | ears clipped on bottom, 6 years old. | cow, red, 5 years old, branded E followed by reversed inverted | L, on left ribs  Horse, two front white feet, left hind foot white, white strip on face, about 9 years old, branded K upper half diamond over, or it might be an upper quarter circle, also bar under, on right shoulder, and reversed C with unner half diamond. | over and bar under, on left flank Large roan gelding, branded lazy M on left hip, 8 years old Dark bay mare, branded script M on right shoulder. Cream colored mare, strine in face rolt at side byended a fermes | that looks like a lazy S Y or V monogram, on left shoulder.  Dark brown mare, one white foot, branded monogram Y 6 on | left shoulder.  Iron gray gelding, branded lazy V followed by lower half circle. | on right shouldes  Bay, gelding, branded a cross on right hip  Gray mare, branded very indigitation, to heft shoulder.  Bay gelding, while shot on left side branded recessed K. here | nder, on left hip branded H upper quarter circle over on | hip. Gray mare, 8 or 9 years old, branded indistinctly Bay yearling mare colt, hind feet white, no brand visible. Brown mare, branded U followed by inversed U, on right hip. | oolt at side. Bay mare, branded indistinctly on right shoulder. Bay stallion, white stripe in face, no brand visible. Bay stallion, white stripe in face, no brandy visible. | Shoulder One red and white cow, about 3 years old, branded C followed | by a cross with bar over and a vertical har connected to the end on one of the arms of the cross, or night ribs, saif at foot.  Two red and white bulls; one roan bull; and one white heifer.  Mare and colt, mare gray, age about 8 years, branded indistinctly the property of the control of the | with 6 joined to lower right hand corner, or possibly a lazy E with the 6 joined coll born since inpounded. Bull, red, aged, branded inverted 5 flat too 3, lower curaries right. | over, on right hip. |
| Pawson, W. H., Jr.  Coaldale.                              | 3  | 3                                    | 3  | Goddard, E Goddard  | Sheets, C. C.   | 3   | 2  | 2 2 3   | 3  | 2   | 2 2 2  | Bailey, Harry Barney  | Byers, H. W Coaldale   | 3   | #TI                 |

\*The amount sent to the Department for the above fifteen animals amounted to \$1,246.12.

#### HERD DISTRICTS

The following districts have now been constituted under the provisions of the Ordinance:

Range 1, townships 29, 50, 51, 52, and that portion of township 53 lying south of the North Saskatchewan River.

Range 2, townships 49, 50, 51, 52, 53 and that portion of township 54 lying south of the North Saskatchewan River.

Range 3, townships 51, 52, 53 and those portions of townships 54 and 55 lying south of the North Saskatchewan River.

Range 1, townships 47 and 48.

Range 3, townships 49 and 50. Range 4, townships 50 and 51. Ranges 1 and 2, townships 38, 39 and 40. Ranges 3 and 4, townships 38, 39 and 40.

Range 1, townships 47 and 48.

Range 4, township 54.
Range 2, township 47.
Range 2, township 48.
Range 4, township 49.
Ranges 1 and 2, township 41.

Range 3, township 47. Ranges 1, 2 and 3, township 37. Range 5, township 48.

Range 4, township 52.

Range 4, township 42.
Range 3, township 47.
Range 2, township 47.
Ranges 1 and 2, township 41.
Range 2, township 48.

All west of the fourth meridian.

During the past twelve months considerable interest has been shown in the establishment of herd districts, not only in that part of the province where such a law forms the only protection the settler can secure, but in many other districts outside of the area in which the Ordinance is applicable. The following is a list of the districts that have been organized during the past year:

Township 48, range 3, west of the 4th meridian. Township 40, range 5, west of the 4th meridian. Township 52, range 4, west of the 4th meridian.

There was only one animal sold under The Herd District Ordinance this year. The following is the description of same:

John H. Findley, Poundkeeper, Cadogan, sold on July 17th, a blue roan heifer, with no brand visible. Date of impoundment June 19th, 1911. First Gazette notice, July 15th. Proceeds of sale, \$24.50. Amount sent to the department, \$14.05.

#### STOCK INSPECTION.

During the year a number of stock inspectors were appointed at new stations that have gradually risen to importance on old lines of railway, and quite a number at leading points on new lines. With the rapidly growing mileage of new railways each year is likely to see a large increase in the number of stock inspectors. Assistance was again given the Western Stock Growers' Association in maintaining an efficient man as stock inspector at Winnipeg. result of this inspector's work a large number of animals were found to have been shipped without authority. The inspector collected from the shipper the market value of all such animals. The amount so collected, together with a correct description of the animal and



A Strong Argument on a Farm—Horses on Demonstration Farm, Claresholm.



the brands thereon, were forwarded to the secretary of the association who located the owners as far as he was able. A description of the unlocated balance was forwarded to the department and the animals duly advertised in the supplement to the official Gazette. A number of those advertised are nearly always claimed. The proceeds of those unclaimed is placed in the general trust account and may be claimed any time within twelve months, after which it passes into the general revenue of the province.

The Stock Inspection Ordinance was amended by the legislature making inspection of pure bred stock no longer necessary when such stock were being shipped to or from an exhibition.

The accompanying table gives the usual statistics regarding the shipments of stock in the province:

STOCK STATISTICS\_FOR ALBERTA. Calculated from returns received up to December 31st, 1911.

| TOR         EAST         WEST         HORSES         CATTLE  |   |                  |          | EXPC           | DRTS   |        | LOCAL SE | HIPMENTS | TOT    | AL   |
|--|---|------------------|----------|----------------|--------|--------|----------|----------|--------|--|
| CATTLE   HORSES   CATTLE   C   |   | INSPECTOR        | . EA     | ST             | WE     | SST    |          |          |        |  |
| 289         34         949         33         5,470         26         6,423         899         890 <td></td> <td></td> <td>CATTLE</td> <td>HORSES</td> <td>CATTLE</td> <td>HORSES</td> <td>CATTLE</td> <td>HORSES</td> <td>CATTLE</td> <td>HORSES</td>   |   |                  | CATTLE   | HORSES         | CATTLE | HORSES | CATTLE   | HORSES   | CATTLE | HORSES   |
| 289         100         340         340         340         340         340         341 <td>1</td> <td>D. J. Witwer</td> <td>4</td> <td>93</td> <td>949</td> <td>33</td> <td>5,470</td> <td>26</td> <td>6,423</td> <td>152</td>  | 1 | D. J. Witwer     | 4        | 93             | 949    | 33     | 5,470    | 26       | 6,423  | 152  |
| 201         19         346         15         821         50         1,368           460         4         120         184         43         15         341   | - | L. Farr.         | 588      | 169            | 807    | OT     | 19       | 23.      | 27     | 185  |
| 460         460         2         116         184         48         158         48         341  |   | Wm. B. Way       | 201      | 707            | 346    | 15     | 821      | 20       | 1,368  | 65   |
| 460         460         120         184         43         1,576         108         1,836         1,666         1,674   |   | J. A. Windsor.   |          | 19             |        | • •    | 340      | 127      | 341    | 06   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |   | W. S. Playfair.  |          | 120            | :      | 184    | 43       | 158      | 1 096  | 402  |
| 11   |   | K. O. Eggen.     | 460      | 40             | 112    |        | 1,376    | 103      | 1,850  | 115  |
| t.         11         4         213         8         842         33         1,066           t.         2,941         148         5         8         842         37         5         5           2,941         148         2         24         1,039         723         3,980         8           2,88         846         12,943         372         3,638         4,393         16,869         5,6           111         146         270         33         1,571         782         5,172         5,178           146         270         33         1,571         782         5,178         5,178           151         6         910         61         910         431         2,048         5,178           152         1,779         2         1,779         2         1,376         24         5,276           153         5         6         1,376         4         1,203         450         1,536           153         3         5         4         1,203         450         1,537           153         3         3         3         3         3         3           144   |   | Joseph Capron    | :        | 7              | 011    | OT     | 44       | -        | 44     |  |
| 2.941 148 5 8 1,039 723 3,980 8,60 1,039 128 1,039 12,048 1,039 12,049 1,039 12,049 1,039 12,049 1,039 12,049 1,039 1,571 1,571 1,671 1,671 1,671 1,001 1,077 1,001 1,00 |   | W. A. Armstrong  | : =      | . 4            | 213    | · ∞    | 842      | 33       | 1,066  | 45   |
| 2,941 148 24 1,039 723 3,980 86 86 12,943 372 3,688 4,393 16,889 16,889 1,571 3,671 146 270 33 1,571 7782 3,178 60 1,674 3,178 1,510 431 2,048 1,2103 2,103 2,103 2,103 2,22 396 1,168 86 763 2,103 2,22 396 1,168 86 763 2,103 1,46 1,168 86 763 3,178 1,901 1,48 1,188 1,188 1,001 1,443 1,48 1,48 1,203 3,48 1,780 1,953 3,01 1,48 1,203 3,08 1,001   |   | I. McDefillott   | 1        | 1              | 20     | 00     | :        | 37       | 5      | 45   |
| 288 846 12,943 372 3,638 4,393 16,869 5,6 12,943 172 111 1 1,510 60 1,674 60 1,797 60 1,385 60 1,790 1,983 60 1 |   | I. E. Deatule    | 2.941    | 148            | :      | 24     | 1,039    | 723      | 3,980  | 895  |
| a         288         846         12,943         372         3,638         4,393         16,869         5,612           a         3,671         142         111         1         1,510         60         16,869         5,612           a         3,671         122         111         1         1,510         60         1,674         5,612           a         42         20         990         51         2,146         3,572         5,512           b         587         6         551         6         910         431         2,048           con         3         507         4         1,376         24         5,276           str         80         39         507         4         1,203         450         1,385           con         80         39         507         4         1,203         450         1,953           olds         22         96         1,68         86         763         270         1,953           on         146         14         201         70         654         178         1,001           d         146         14         201         766  |   | Is Weldie        |          | :              | :      | :      | 26       | 19       | 26     | 19   |
| 3,671         122         111         1,510         60         5,512         5,512         6,674         6,674         6,674         6,674         6,671         6,671         6,671         6,671         782         5,512         6,77         782         5,512         782         5,512         783         7,78         5,178         8,178         8,178         8,178         8,178         8,178         8,178         8,178         8,178         8,178         8,179   |   | P D Sanders      | 288      | 846            | 12,943 | 372    | 3,638    | 4,393    | 16,869 | 5,611  |
| 3,671 146 270 33 1,571 782 3,178 3,178 5,1 |   | W. G. Duggan     | 53       | 122            | 111    |        | 1,510    | 09       | 1,674  | 183  |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   |   | F. Falconer.     | 3,671    | 146            | 270    | 33     | 1,571    | 782      | 5,512  | 106  |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   |   | Robt, Scott.     | 42       | 20             | 066    | 51     | 2,146    | 354      | 3,1/8  | 420  |
| 1     2,103     2     1,797     26     1,376     24     5,276       80     39     507     4     1,203     450     1,385       80     39     507     4     1,203     450     1,790       80     39     507     4     1,203     877       52     22     96     1,168     86     763     270     1,953       143     14     201     70     654     178     1,001       146     14     201     70     654     178     766  |   | N. McCarthy      | 282      | 9              | 551    | 9      | 910      | 431      | 2,048  | 440  |
| 80 39 507 4 1,203 62 1,385 82 22 96 1,168 86 763 158 178 1443 146 146 148 178 158 178 1961 1963 1963 1963 1963 1963 1963 1963  |   | L. Beaton.       | 2,103    | 7              | 1,797  | 97.    | 1,376    | 74       | 0,7%   | 70   |
| 80 39 507 4 1,203 450 1,790 1,790 22 8 1,385 22 96 1,168 86 763 270 1,953 301 146 14 201 70 654 178 1,001  |   | W. A. Carmichael | :        | :              | :      | :      | :        | :        | :      | :  |
| 80 39 507 4 1,203 450 1,790 218 22 96 1,168 86 763 270 1,953 148 148 201 70 654 178 1,001 146 14 201 70 654 178 1,001  |   | Arthur Burnet    | :        | :              |        | :      | 1 505    |          | 1 200. | 69   |
| olds 218 39 307 4 1,203 387 378 308 318 301 301 301 301 301 301 301 301 301 301  |   | Andrew Watson    |          | . 0            | . 1    |        | 1,000    | 150      | 1,500  | 493  |
| olds. 218 96 1,168 86 763 270 1,953 0n. 148 143 1. 146 14 14 146 14 14 14 14 14 14 14 14 14 14 14 14 14  |   | C. W. James      | <u> </u> | 36             | 200    | 4      | 1,200    | 450      | 1,190  | 9 10 00<br>10 0 |
| on. 146 14 201 70 654 178 1,001 766 146 146 14 201 70 654 178 1,001 766 14 178 18 18 18 18 18 18 18 18 18 18 18 18 18  |   | Jno. T. Reynolds | 218      |                | 148    |        | 769      | 0.00     | 1 053  | 4.59   |
| T. Patton  |   | A. R. McKay      | 757      | 96             | 1,168  | 98     | 160      | 077      | 301    | 201  |
| Biddell  |   |                  | 143      | :-             | 901    | .22    | 654      | 178      | 1.001  | 262  |
|  | : | ناد              | 140      | # <del>-</del> | 43     | 2      | 723      | 308      | 2,266  | 309  |

| 31              | 700         | 218           |             | :           | :               | 1,692         | 58        | :          | 69             |                | 2.203          |             | 214             |              | 10          | 200         | 071         | 10          | 312        | 1          | 4         | 340         | 34             | 48             |              | 1,216        |            | ಣ             | 252           | 1,348      | 00            | 452            | 1,400        |
|-----------------|-------------|---------------|-------------|-------------|-----------------|---------------|-----------|------------|----------------|----------------|----------------|-------------|-----------------|--------------|-------------|-------------|-------------|-------------|------------|------------|-----------|-------------|----------------|----------------|--------------|--------------|------------|---------------|---------------|------------|---------------|----------------|--------------|
| 1 22            | 1,341       | 5,075         | 227         | :           | 46              | 474           | 3,085     | 196        | 1.246          | 464            | 5,497          | . :         | 1,935           | . :          | 91          | 728         | 523         | 1.436       | 5,906      | 1,131      | 897       | 182         | 113            | 93             | :            | 1,652        | 922        | 40            | 1,379         | 6,556      | 414           | 1,412          | 1,001        |
| 11              | 100 1       | 181 226       | :           | :           |                 | 1,039         | 41        | :          | 69             |                | 1,009          | :           | 214             | :            | 10          | 61          | 633         | 19          | 289        | :          | 4         | 185         | 30             | 48             | :            | 866          | :          | ಣ             | 225           | 296        | ∞ ;           | 45U<br>937     |              |
| 22              | 732         | 4,094         | 227         |             | 46              | 401           | 2,032     | 172        | 1,217          | 270            | 3,996          | :           | 1,506           | :            | 91          | 228         | 359         | 1,015       | 5,305      | 292        | 877       | 46          | 113            | 93             |              | 1,244        | 922        | 40            | 1,338         | 3,571      | 191           | 974            |              |
| :               | : 12        | 15            | :           | :           | . 0             | 21            | 17.       | :          | :              | -              | 18             | :           | :               | :            | :           | 16          | 102         | :           | 14         | :          | :         | :           | :              | :              | :            | :            | :          | :             |               | 200        | · c           | 95             | :            |
| :               | :           | 1,453         | :           | :           |                 | 945           | 949       | :          |                | 194            | 1,379          |             | 429             | :            | :           | . 1         | 145         | 16          | 543        |            | 97        | 07          | :              | :              |              | /00          | :          |               | 0 1 7         | c,         |               | 675            | -            |
| 20              |             | 225           | :           | :           | 697             | 700           | :         | :          | :              | . 1            | 1,176          | :           | :               | :            | . 7         | 11          | 736         | :           |            | :          | · 1       | - çeT       | 4              | :              | 916          | 017          | :          | .07           | 106           | 100        | :             | 454            | <u>:</u>     |
| ,               | 609         | 23            | :           | :           |                 | 202           | 26        | 100        | 67             | 100            | 771            | :           | :               | :            |             | 900         | D 1 0       | 405         | 969        | 000        | 110       | 011         | :              | :              | <br>41       | 7.7          | :          | : <u>e</u>    | 9 010         | 308        | 1.211         | 20             | -<br>:       |
| Chas. Rodbourne | D. Davidson | H. B. Atkins. | F. R. Smith | W. F. Wendt | J. H. Pickering | Oliver Gibbon | F. Kuhnke | Jno. Graff | J. E. McElhone | Thos Handerson | Neil Nicholson | Wm. Salvace | Chas. F. Gibson | W. H. Tavlor | Arthur Wood | Chas E Fish | A H Stowers | A Asning II | A A Loftus | Wm. Dennis | Carl Beny | D. H. Moore | J. H. Caldwell | S. F. Campbell | Jas. P. Kent | T. C. Smith. | Fred Pass. | J. S. Johnson | C. W. Lowther | H. Miller. | Benj. Matkin. | R. G. Mathews. | wanter Shull |
| Crowfoot.       | Daysland.   |               |             | Edberg      |                 |               |           |            | . :            |                |                |             | sl              |              |             | High River. |             |             |            |            |           |             |                |                |              |              |            |               |               |            | Magrath       |                |              |

STOCK STATISTICS FOR ALBERTA. Calculated from returns received up to December 31st, 1911.—Continued.

|                |                  |        | EXP    | EXPORTS |        | LOCAL SE | LOCAL SHIPMENTS | TOT    | TOTAL  |
|----------------|------------------|--------|--------|---------|--------|----------|-----------------|--------|--------|
| SHIPPING POINT | INSPECTOR        | EAST   | ST     | WE      | WEST   |          |                 | ,      |        |
|                |                  | CATTLE | HORSES | CATTLE  | HORSES | CATTLE   | HORSES          | CATTLE | HORSES |
| Medicine Hat   | J. H. G. Bray.   | 1,839  | 2,336  | 183     | 104    | 792      | 474             | 2,814  | 2,914  |
| Millet         | Alex, Minard     | :      | :      | •       |        | 202      | 0#              | 202    | . *    |
| Minburn        | Nick Hittinger   | : :    | : :    | 4       |        | 825      | 34              | 829    | 34     |
| Morley         | Frank L. Wellman |        | ::     | 91      | :      | 200      | ::              | 95     | 101    |
| Morningside    | W. C. Huston.    | 107    | :0     | :       | :      | 824      | 15              | 931    | 24     |
| Mundare        | Valentine Mohr.  | 101    | 10     | : :     | 36     | 313      | 531             | 314    | 22.2   |
| Nevis          | A. E. Bedford    |        | :      | :       | :      | 12       | :               | 200    | :      |
| New Norway     | Norman M. Smith  | 80°    |        | :       | :      | 308      | ×6.             | 308    | 4      |
| Ohaton         | A. W. Fleming    | 2, 64  | 148    | . 50    | 16     | 812      | 392             | 1,035  | 556    |
| Olds           | Thos McKercher   | 200    | 10     | 1,231   | 34     | 6,658    | 276             | 7,939  | 320    |
| Penhold        | J. M. Hart       | 9      | 20     | : }     | 9 1    | 1,074    | 45              | 1,080  | 50     |
| Pincher Creek  | Jas. Robertson   | 45     | 146    | 715     | 10.7   | 9 435    | 187             | 2,195  | 194    |
| Ponoka.        | A. Reid          | 661    | -      | 448     |        | 2,701    | 81              | 3,00   | 81     |
| Provost        | Jas. Carter      |        |        |         |        |          | :               | :      | • (    |
| Raymond        | L. J. O'Brien.   | 276    | 94     | 126     |        | 2,793    | 26              | 3,195  | 120    |
| Red Deer       |                  | :      | 24     | 416     | 19     | 2,302    | 434             | 2,718  |        |
| Round Hill     | Wm. Ross.        | :      | :      | :       | :      | 305      | : :             | 305    | · ·    |
| Ryley          | F. N. Kjosness   |        | . 00   |         | -      | 229      | 125             | 740    | 134    |
| Stavely        |                  |        | 2      | -       | 2      | 92       | 56              | 2.2    | 30     |
| St. Albert     | J. A. Piquette   | 1 000  | : 0    | 050     | - NC   | 3 865    | 179             | 5.855  | 202    |
| Stettler       | Jay C. Diam.     | 1,000  |        |         | :      | 42       | 60              | 42     | က      |
| Stratheona     | A. Wainwright.   | 29     | III    | 15      | 22     | 193      | 1,560           | 292    | 1,748  |

| 402<br>119<br>93<br>146<br>207<br>176<br>   | 29 613  |
|---|---------|
| 2,362<br>1,762<br>1,762<br>1,362<br>1,762<br>1,344<br>1,334   | 150 303 |
| 265<br>957<br>888<br>883<br>1134<br>1150<br>1150  | 21.999  |
| 775<br>473<br>424<br>2,259<br>1,726<br>1,726<br>530<br>783  | 93,253  |
| 4 : 6 :   | 1,954   |
|   | 31,188  |
| 133<br>244<br>287<br>60<br>776<br>776   | 8,660   |
| 165<br>496<br>496<br>2<br>201<br>103<br>103<br>2,191<br>2,191   | 25,862  |
| Strathmore. Oscar Moorehouse. Strome. Taber. Neil Neilson. Test. F. E. Allison. F. E. Allison. Perentilion. R. A. McKenzie. A. A. Harkness. Viding. Otto O. Lund. Wabanun. C. H. Dunn. Walsh. C. F. Gibson. Wetaskiwin. Lachlan Sinclair. P. A. Miquelon. | Total   |

#### WOLF BOUNTY.

As in previous years a bounty of ten dollars on timber wolves and one dollar on wolf pups has been paid. Bounty was claimed on two hundred and thirty grown wolves, and on thirty-seven wolf pups.

#### II--CROPS

## WEATHER CONDITIONS AND STATISTICS.

The supervision of the voluntary meteorological service in the province started by the Territorial Department has been continued under the direction of the Dominion meteorological office at Toronto. During the year a number of new observes were appointed and the following is a complete list of all stations in operation in 1910:

METEOROLOGICAL STATIONS IN THE PROVINCE OF ALBERTA, 1911. Showing the Latitude, Longitude, Altitude and Name of Each Observer.

| STATION              | Latitude | Longitude | Altitude  | OBSTRAND           |
|----------------------|----------|-----------|-----------|--------------------|
|                      |          | Longitude | ZXIIIIIII | OBSERVER           |
| Alix                 | 52 24    | 113 10    |           | W. Parlby.         |
| Athabasca Lanidng    | 54 43    | 113 17    | 1650      | Sam Hayes.         |
| Banff                | 51 10    | 115 34    | 4542      | L. B. Sanson.      |
| Bon Accord           | 53 53    | 113 24    | 1012      | John Schofield.    |
| Calgary              | 51 2     | 114 12    | 3389      | Miss M. Bradin.    |
| Cardston             | 49 12    | 113 18    |           | M. Woolf.          |
| Daysland             | 55 52    | 112 17    |           | D. Davidson.       |
| Didsbury             | 51 40    | 114 8     | 3300      | C. S. Peterson.    |
| Dunvegan             | 55 56    | 118 35    | 1305      | F. I. Bedson,      |
| Eckville             | 52 23    | 114 22    | 3000      | W. W. Caskarth.    |
| Halkirk              | 52 15    | 112 12    |           | Mrs. W. L. Fulton. |
| Edmonton             | 53 33    | 113 30    | 2158      | Campbell Young.    |
| Fort Vermilion       | 55 27    | 116 3     | .2100     | Rev. A. S. White.  |
| Fort Vermilion       |          | 110 0     |           | Robt. Jones.       |
| Fort McMurray        |          |           |           | Miss Gordon.       |
| Gleichen             | 50 59    | 112 54    | 2952      | J. H. Jowett.      |
| Gilt Edge            | 52 59    | 110 43    |           | Fred Ellis.        |
| High River           | 50 35    | 113 53    | 3394      | L. M. Robertson.   |
| Hillsdown            | 52 14    | 113 29    | 2806      | R. E. Fiske.       |
| Harmattan            | 51 45    | 114 23    | 3500      | W. Levesley.       |
| Islay                | 52 24    | 110 32    |           | J. R. Giles.       |
| Knee Hills           | 51 31    | 113 22    | 3100      | A. Wyndham.        |
| Loveland             |          | 110       |           | Geo. Kerslake.     |
| Lethbridge           | 49 42    | 112 51    |           | C. B. Bowman.      |
| Lunnford             | 54 33    | 114 19    |           | G. F. Newhall.     |
| Lethbridge Exp. Farm | 49 43    | 112 51    |           | W. H. Fairfield.   |
| Lacombe Exp. Farm    | 52 28    | 113 44    |           | R. E. Everest.     |
| Lawrence             | 50 16    | 113 26    |           | L. D. Meachan.     |
| Macleod Police       | 49 44    | 113 24    |           | Corp. Lindblad.    |
| Peace River Crossing | 56 15    | 117 15    |           | H. A. George.      |
| Medicine Hat         | 50 1     | 110 37    |           | H. Hassard.        |
| Pembina              |          |           |           | D. H. Telfer.      |
| akan                 | 54 0     | 112 31    |           | C. A. Mitchell.    |
| Pincher Creek        | 49 0     | 114 4     |           | C. W. Gill.        |
| Three Hills Creek    | 51 30    | 113 11    |           | W. E. Cutler.      |
| Spirit River         | 55 40    | 118 47    |           | A. M. Josse.       |
| Vetaskiwin           | 52 58    | 113 23    |           | J. H. Walker.      |
| Vaitefield           | 53 29    | 111 38    |           | Thos. B. Waite.    |

# Observers Who Report on Rainfall, Thunder and Snowfall.

| Station                    | Observer              |
|----------------------------|-----------------------|
| Bardo                      |                       |
| Bismark.                   | Hoper No col          |
| Brooks.                    | Henry Nagel,          |
| Bruederheim.               | C A Albaraha          |
| Bittern Lake.              | E C D                 |
| Campsie.                   | W. W. W. H.           |
| Conjuring Creek.           | win. wanace.          |
| Courts                     | J. A. Sangster.       |
| Coutts. Dorenlee.          | Sergeant Onver.       |
| Elkwater.                  | C. Nixon.             |
| Josephsburg                | G. W. Smiberet.       |
| Josephsburg.               | James Robinson.       |
| Jumping Pond               | L. J. G. Ward.        |
| Lacombe Experimental Farm. | Miss A. M. Crow.      |
| Langdon.                   | C.P.R. Irrigation Co. |
| Local Stoy                 | Hiigh Mackarland      |
| macleod                    | I Stonson             |
| OKOtoks                    | H R Harner            |
| Tonoka                     | . John Hagemann       |
| Sion                       | Geo H Cottman         |
| Wabamun                    | J C Haddock           |
|                            |                       |

### MONTHLY WEATHER REVIEW, 1911.

#### January.

EDMONTON.—A month with considerable cloudy weather and extremely low temperature and a snowfall of 12 inches. Stock exported in good condition; 66 hours of bright sunshine.

MEDICINE HAT.—Prairie, snow covered to mountains, range cattle in fair condition. Depth of snow on ground about four inches, ice in river about two feet.

#### February.

Edmonton.—The first week of February was very cold, but during the remainder of the month the weather has been for the most part comparatively mild with bright sunshiny days. Stock throughout this district is in good condition. Snow disappearing fast during mild weather of the past week. Bright sunshine 163.1 hours. MEDICINE HAT.—Snow crusted on prairie, and cattle suffering, prospects for

stock are gloomy, and ranchers fearful of the outcome.

#### March.

Edmonton.—A month of fine warm weather; stock report as having wintered well

MEDICINE HAT.—Springlike weather; ranch stock very thin with some losses; some seeding done but not general; conditions for seeding good.

#### April.

EDMONTON.—A month of fine weather with light precipitation; conditions good

for farming operations; hours of bright sunshine, 223.

MEDICINE HAT.—The land is in splendid condition and prospects good. Seeding well advanced and farmers jubilant as to outlook. Grass well forward and range stock improving in condition.

#### May.

EDMONTON.—A month of fine weather for the crops. Frequent showers of rain did much good and growth of vegetation has been very rapid. Two hundred and twenty-six hours of sunshine.

MEDICINE HAT.—Plenty of moisture, crop prospects never better and every-

body optimistic. Splendid growth of grain and grass.

#### June.

Edmonton.—During the first three weeks of the month fine weather prevailed, but the balance was very cloudy, heavy rains falling on the last three days. Crops are in fine condition; river about its average for June. Bright sunshine 211 hours.

MEDICINE HAT.—Some crops have suffered from hot dry winds which prevailed in the early part of the month, but everything has revived since the late rains. Crop prospects excellent; considerable thunder and lightning but as usual little or no damage therefrom.

#### July.

Edmonton.—A month of very wet weather; crops all over the province reported as being in excellent condition. Much warmer conditions are needed; 259 hours of bright sunshine.

MEDICINE HAT.—Grain crops suffering from want of rain; having started;

some rye and winter wheat harvested.

#### August.

EDMONTON.—The rainy weather of July was continued throughout August and the crops at present are in a backward condition. Light frost reported, but no serious damage. The hay crop is unusually heavy. 217 hours of bright sunshine.

Medicine Hat.—Crops have been revived by the good rains; little if any, damage by frost, roots and vegetables very fine, grain good sample. Plenty of feed in sight for the winter.

#### September.

EDMONTON. -A month of fine weather with occasional showers in middle of month. 204 hours of bright sunshine.

MEDICINE HAT.—Some crops injured by frost, nearly all damaged by wet weather. Conditions unfavourable for harvesting but brightening up lately and threshing now in full swing.

#### October.

EDMONTON.—A month of fine weather with very little precipitation; threshing general all over district with very favourable reports as to crops; stock doing well. Hours of bright sunshine, 159.

MEDICINE HAT.—Threshing delayed by wet weather, about 70 per cent. finished. Unusually heavy frosts towards the end of month; roots and vegetables good; weather beautiful now.

#### November.

Edmonton.—Fine weather prevailed during the greater part of the month with light fall of snow in the first half and extremely low temperature between the 8th and 17th; 133 hours of bright sunshine.

MEDICINE HAT —Threshing not finished yet owing to heavy snow and cold

weather; snow fast disappearing; stock doing well.

EDMONTON.—A month of fine weather with a very light snow-fall; 85.4 hours of bright sunshine.

MEDICINE HAT.—Threshing just about finished. Good sleighing. Stock in good condition and plenty of feed for the winter.

Annual Precipitation from 1898 to 1911, Inclusive.

| STATIONS          | 1898  | 1899  | 1900  | 1901                                    | 1902   | 1903  | 1904  | 1905  | 1906  | 1907                                    | 8061  | 6061  | 1910   | 1161  | Average        |
|-------------------|-------|-------|-------|---|--------|-------|-------|-------|-------|---|-------|-------|--------|-------|----------------|
| Alix              | :     | :     |       |   |        | :     | :     | 2.87  |       | 13.91                                   | 14.15 |       | 10.29  |       |                |
| Athabasca Landing | 90.58 | 26 34 | 93 29 | 19.27                                   | 30, 59 | 24.82 | 14.80 | 16.00 | 0.45  | 23.54                                   | 21.05 | 6.29  | 16.49  | 17.03 | 10.39<br>20.87 |
| Bantry            |       |       |       |   |        |       |       |       |       |   |       |       | 0.11   |       |                |
| Bardo             |       |       |       |   |        | :     |       | :     |       | 15.59                                   | 18.05 |       | 10.49  |       | 14.54          |
|                   | :     | :     | :     |   | :      | :     |       |       | :     | 18.14                                   |       |       | 11.68  |       |                |
| Bittern Lake      |       | :     | :     | :                                       | :      | :     | :     | :     | :     | 17.19                                   |       |       | 1.3.80 |       |                |
| Blairmore         | :     | :     | :     | :                                       | :      | :     | :     | :     | :     | :                                       | :     |       | 6.54   |       | 11 00          |
| Brooks            |       | :     | :     | :                                       | :      | :     | :     | 12 90 | :     | 19 07                                   | 19.06 |       | 12.56  | 18.68 | 11.82          |
| Bon Accord        | :     | :     | :     | :                                       | :      |       |       | 11.46 | 17.63 | 14.52                                   | 24.97 | 16.20 | 10.00  |       | 10.11          |
|                   |       |       |       |   |        |       |       |       |       |   |       |       |        |       |                |
| Calgary           | 20.53 | 14.94 | 26.15 | 17.57                                   | 22.31  | 34.57 | 22.77 | 14.84 | 16.24 | 14.96                                   | 18.25 | 16.03 | 12.03  | 19.99 | 19.37          |
|                   |       | :     |       | :                                       | :      | :     | :     | :     | :     | :                                       | :     | :     | 14.02  |       |                |
| Cardston          |       | :     | :     | :                                       | :      | :     | :     | :     | : : : | . 1                                     |       | . 0   | 13.20  |       | . 1            |
| Conjuring Creek   | :     | : : : | :     | :                                       | :      | :     | :     | :     | :     | 18.57                                   | 18.59 | 13.63 | 4.05   |       | 11.77          |
| Coutts            | :     | :     | :     | :                                       | :      | :     | :     | :     |       | :                                       | 17.00 |       | 10 21  | . 20  | :              |
| Daysland          | :     | :     | :     | :                                       | :      | :     | :     | :     |       | :                                       | 14.09 | 00.0  |        |       |                |
| Didshurv          | :     |       |       | 23.07                                   | 25.13  | 21.80 | 14.26 | 21.72 | 22.07 | 27.11                                   | 21.89 | 20.99 | 17.48  | 23.35 | 21.71          |
| Dorenlee          |       |       |       |   |        |       |       | :     |       | 19.50                                   |       | 15.99 | 5.10   |       | 17.14          |
| Dunvegan          |       | :     | :     |   |        | :     | :     | :     | 14.49 | 99.8                                    |       | × .33 | 7.45   |       | - 1            |
|                   | :     |       |       | • |        | . !   |       | - 0   | . (   | . (                                     |       | 9.44  | 1.88   | 9.84  | 11.37          |
| Edmonton          | 10.90 | 20.89 | 27.82 | 27.53                                   | 20.66  | 21.06 | 19.86 | 15.36 | 13.48 | 16.62                                   |       | 14.30 | 14.43  |       | 18.67          |
| :                 | :     | :     | :     | :                                       |        | :     | :     |       | :     | : | :     | :     | 08.7   |       | :              |
| Endlang           | :     | :     | :     | :                                       | :      |       |       |       |       | 9 10                                    | 6     |       | 1 80   |       | 06.8           |
| Fort Vormilion    | :     | :     | :     | :                                       | :      |       | :     | :     |       | 0.13                                    |       | 9.00  | 1.03   | 13 20 | 00.00          |
| Fort MoMilmore    | :     | :     | :     | :                                       |        | :     |       |       |       |   |       |       | :0     |       | :              |
| Five Lake         |       |       |       |   |        |       |       |       |       |   |       |       |        | 18.55 | : :            |
|                   |       |       |       |   |        |       |       |       |       |   |       |       |        |       |                |

| : :        |             |         | :         | 13.46      | 18.75 | :     | :          | 15.20        | 14.19   | 15.31             | 12.76    | 16.17      | 13.23                | :       |         |            |          |          | :       | 13.79 | :          |           |       |       |           | :                                       | 18.83                | 10.46   | 10.41   | ::    | 16.49 | 16.43        |              |
|------------|-------------|---------|-----------|------------|-------|-------|------------|--------------|---------|-------------------|----------|------------|----------------------|---------|---------|------------|----------|----------|---------|-------|------------|-----------|-------|-------|-----------|---|----------------------|---------|---------|-------|-------|--------------|--------------|
| 13.40      |             |         |           |            |       |       |            |              |         |                   |          | 22.16      |                      |         | :       | 24.70      | 14.33    | 19.63    | 23.73   | 24.34 | 20.52      | 08.       | 22.36 | 16.04 | .17       | 15.41                                   | 14.56                | 17.17   | 18.52   | 24.02 | 19.26 | 20.10        | 19 09        |
| 8.98       | 5.15        | 10.04   | 12.09     | 9.33       | 21.25 | 00.00 | 00.00      | 12.80        | 13.04   | 13.28             | 99.6     | 5.66       | 7.41                 | :       | 8.41    |            | 35.70    |          |         | 8.57  |            | :         | :     | 6.45  | :         | 10.86                                   | 23.06                | 10.98   | 68.9    | :     | 10.82 | 14.61        |              |
| 19.14      | 9.20        | 11.47   | 7.11      | 9.31       | 18.16 | 5.89  | 13.78      | 16.88        | 15.34   | 8.01              | 11.69    | 11.69      | 10.36                | : : :   | 10.98   | :          | :        | :        | :       | 16.05 | 14.88      | :         |       | 9.80  | :         | 13.52                                   | 13.91                | 9.02    | 4.02    |       | 25.91 |              |              |
| 15.89      | 8.22        | 17.55   | 14.76     | 15.58      | 18.64 | 89.   | 9.54       | 20.14        | 17.66   | 15.33             | 14.69    | 16.16      | 13.96                | :       | :       | :          | :        | :        | :       | 18.11 | 11.49      |           |       | 6.67  | :         | 19.01                                   | 27.31                | 12.33   | 12.22   |       | 6.82  |              |              |
| 11.39      | 4.94        | :       | :         | 16.05      | 17.51 | :     | 11.56      | 16.09        |         | 18.52             |          |            | :                    | :       | :       | :          | :        | :        | :       | 12.40 | 19.48      | : : :     |       | 96.9  | : : :     | 12.93                                   | 18.32                | 2.81    | :       | :     |       | 19.53        |              |
| 16.61      | :           | :       | :         | :          | 16.06 | :     | :          | :            |         | :                 | :        | 22.48      | :                    | :       | :       | :          | :        | :        |         | 20.82 | :          | :         |       | 11.62 |           | :                                       | 15.83                | : : :   | :       | :     | 21.63 | :            |              |
| 11.19      | :           |         | :         | :          | 16.26 | :     | :          | :            | 15.04   | :                 | :        | 13.78      | :                    | :       | :       | :          | :        | :        |         | 11.63 | :          | :         |       | 8.99  | :         | :                                       | :                    | : : : : | :       | :     | 14.52 |              |              |
| 10.22      | :           | :       | :         | :          | :     | :     | :          | :            | :       | :                 | :        | 11.40      | :                    | :       | :       | :          | :        | :        |         | 5.34  | :          | :         | - 1   | 9.70  | :         | :                                       | :                    | :       | :       | :     | :     | :            |              |
| 15.83      | :           | :       |           | :          | :     | :     | :          | :            | :       | :                 | :        | 14.82      | :                    | :       | : : :   | :          | :        | :        | . ;     | 9.73  | :          | :         |       | 9.90  | :         | :                                       | :                    | :       | :       | :     | :     | :            |              |
| : :        | :           | :       | :         |            | :     | :     | :          | :            | :       | :                 |          | 28.13      | :                    |         | :       |            | :        | :        |         | 10.48 | :          | :         | . 0   | 13.68 |           | :                                       | :                    | :       | :       | :     | :     | : : :        |              |
| : :        | :           | :       | :         | :          | :     | :     | :          | :            | :       | :                 |          | :          | :                    | :       | :       | :          | :        | :        |         | 12.21 | :          | :         |       | 20.80 | :         | :                                       | :                    | : : : : | :       | :     | :     | :            |              |
| <u>::</u>  | :           |         | :         | :          | :     |       | :          | :            | :       | :                 | :        | :          | :                    | :       | :       | :          | :        | :        | . 0     | 10.08 | :          | :         |       | c0.22 | :         | : | : : : :              | :       |         | :     | :     | : : :        |              |
| ::         |             | :       | :         | :          | :     | :     | :          | :            | :       | :                 | :        | :          | :                    |         | :       | :          | :        | :        | 1.      | 19.74 | :          | :         |       | 27.77 | :         | :                                       | :                    | :       | :       |       |       | :            |              |
| ::         | :           | :       | :         | :          | :     | :     | :          | :            | :       | :                 | :        | :          |                      |         | :       | :          | :        | :        |         | 13.59 | :          | :         |       | 10.91 | : : : :   | :                                       | :                    | :       | :       | :     |       | :            |              |
| Glit Edge. | Grassy Lake | Halkirk | Harmattan | righ Kiver | T-1   | Islay | Josephourg | Jumping Fond | Lacombe | Lacombe Exp. Farm | Lawrence | Letnbridge | Lethoridge Exp. Farm | Linenam | Tangdon | Touch Sloy | Loveland | Luminord | Medical |       | Manzhomics | Morroundt |       | Winds | Olzatolea | Delega                                  | Dogo Diron Character |         | Pakisko |       |       | Please Caral | Flayle Creek |

Annual Precipitation from 1898 to 1911, Inclusive.—Continued.

| STATION           | 1898 | 1899 | 0061 | 1901 1902 | 1902 | 1903  | 1904          | 1905  | 1906  | 1907  | 1908  | 1909  | 1910  | 1911 Average | Average |      |
|-------------------|------|------|------|-----------|------|-------|---------------|-------|-------|-------|-------|-------|-------|--------------|---------|------|
| Red Deer.         |      |      |      |           | :    | :     | :             | :     | :     | :     | :     |       |       | 17.75        | :       |      |
| Seven Persons     |      | :    | :    | :         | :    | :     | :             | :     | :     | ::    |       | - 1   |       | 17.53        |         |      |
| Sion              |      |      |      | :         | :    | :     | :             | :     | :     | 17.11 | 17.98 | 50.69 | 19.79 | 24.36        | 19.98   |      |
| Spirit River      | :    |      | :    | :         | :    | :     | :             | :     | :     | :     | :     |       | 7.34  | 10.94        |         |      |
| Sundial           | :    |      | :    | :         | :    |       |               |       | - 1   | - 1   |       | - 1   |       | 12.37        | : :     |      |
| Three Hills Creek |      |      | :    |           | :    | 18.53 | 18.53   11.44 | 18.02 | 15.25 | 13.77 | 14.29 | 15.74 | 8.49  | 17.13        | 14.74   |      |
| Tilly             | :    |      | :    |           | :    | :     |               | 1     |       | :     | :     |       | :     | 3.04         |         | _    |
| Waitefield        | :    |      |      | :         | :    | :     | :             | :     | 24.57 | 17.07 | 22.87 | 17.83 | 13.83 | 19.00        | 19.19   | Aut. |
| Wetaskiwin        |      |      |      | :         |      | 20.87 | 18.10         | 13.18 |       | 17.97 | 17.97 | 13.94 | 17.40 | 36.50        | 19.17   |      |
| Wahamiin          |      |      |      |           | -    | -     | -             | :     | -     | 20.36 | 19.97 | 7.67  | 00.0  | 12.00        |         |      |

MONTHLY PRECIPITATION FOR 1911.

| _              |
|----------------|
| reb. Mar. Apr. |
| .92            |
| 1.16 .34       |
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| 07.            |
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| . 52           |
| 68.            |
| :              |
| 1.45           |
| :              |
| :              |
| .15            |
| 06:            |
| . 20           |
| .54 .19        |
| 1.28           |
| 1.50 .65       |
| _              |
| 01. 99.        |
|                |

MONTHLY PRECIPITATION FOR 1911 .- Continued.

|                      | The state of the s | Charles Southern Con-                   |      |  |        |       |       |      |       |       |      |      |       |
|----------------------|--|---|------|--|--------|-------|-------|------|-------|-------|------|------|-------|
| STATION              | Jan.   | Feb.                                    | Mar. | Apr.   | May    | June  | July  | Aug. | Sept. | Oct.  | Nov. | Dec. | Total |
| Lacombe Exp. Farm.   | .55  | .48                                     | 1.01 | 1.15   | 1.51   | 5.63  | 4.39  | 2.63 | 2.50  | .62   | . 78 | .19  | 21.44 |
| Lawrence             | 08.  | 02.                                     | . 52 | . 65   | 3.00   | 3.57  | 1.68  | 2.23 | 1.64  | . 39  | :    | .40  | 15.58 |
| Lethbridge           | .82  | .51                                     | . 42 | 68.  | 2.32   | 4.62  | 2.33  | 4.04 | 3.98  | .57   | 1.25 | .41  | 22.16 |
| Lethbridge Exp. Farm | . 70   | . 52                                    | .32  | .82  | 1.90   | 4.71  | 2.27  | 3.63 | 4.16  | .44   | .95  | .77  | 21.19 |
| Lineham              | .12  | .19                                     | .17  | .05  | 2.18   | 2.50  | 3.00  | 4.60 | .48   | :     | .12  | .05  | 13.46 |
| Loch Sloy.           | . 57   | 1.51                                    | 08:  | 1.10   | 3.31   | 6.34  | 1.90  | 5.13 | 2.25  | .61   | . 68 | .50  | 24.70 |
| Loveland             | :  | :                                       | .12  | . 54   | 1.65   | 4.73  | 2.45  | 2.96 | .85   | .63   | .30  | . 10 | 14.33 |
| Lunnford             | 1.67   | .27                                     | .27  | .16  | 19.1   | 5.60  | 4.35  | 2.66 | 1.68  | .46   | .45  | .45  | 19.63 |
| Lyndon               | 1.07   | 1.41                                    | .55  | 1.78   | 5.90   | 1.18  | 2.40  | 6.29 | .57   | .61   | 1.41 | .56  | 23.73 |
| Macleod (Police)     | 1.20   | 1.15                                    | :    | .45  | 2.76   | 4.61  | 2.77  | 2.79 | 3.14  | .33   | .62  | 02.  | 20.52 |
| Macleod              | 1.60   | .82                                     | . 10 | 1.65   | 3.74   | 4.06  | . 54  | 3.61 | 5.49  | 99.   | 1.12 | 1.05 | 24.34 |
| Manyberries          | :  | 90.                                     | .15  | 09.  | :      | :     | :     |      | : :   |       |      | :    | 08    |
| Mayeroft.            | 2.55   | 1.35                                    | .45  | 1.25   | 3.45   | 1.42  | 1.61  | 4.08 | 3.11  | .45   | 1.92 | . 72 | 22.36 |
| Medicine Hat         | :  | :                                       | .32  | 1.49   | 1.84   | 3.60  | 1.65  | 2.20 | 1.75  | .45   | 2.20 | . 54 | 16.04 |
| Vinda                | 17   | :                                       | :    | :  | :      | ::    |       | :    | :     | . :   | :    |      | 17    |
| )kotoks              | .17  | .62                                     | .32  | . 40   | . 1.35 | 3.35  | 2.31  | 3.56 | 1.93  | .10   | 1.05 | .25  | 15.41 |
| Pakan                | 1.22   | . 52                                    | .37  | .46  | .91    | 4.12  | 2.11  | 2.44 | 1.35  | .32   | .54  | .20  | 14.56 |
| Peace River Crossing | 1.65   | .40                                     | . 50 | .15  | 1.29   | 2.67  | 4.08  | 1.76 | 3.02  | :     | .75  | 06.  | 17.17 |
| Pembina              | .47  | . 55                                    | 09.  | .20  | 1.02   | 6.98  | 2.74  | 3.91 | 1.65  | :     | .40  |      | 18.52 |
| Pekisko              | :  | :                                       |      | 1.00   | 4.34   | 2.68  | 2.61  | 5.51 | 5.04  | .97   | 1.32 | .55  | 24.02 |
| Pincher Creek        |  | • | :    |  |        | 4.05  | 2.70  | 99.9 | :     | 3.91. | 1.93 | .01  | 19.26 |
| Ponoka               | .85  | 09.                                     | .44  | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | 1.34   | 3.90  | 4.43  | 2.87 | 2.93  | .44   | . 92 | . 55 | 20.10 |
| Playle Creek         | :  | :                                       | :    | :  | 3.27   | 1.77  | 3.15  | 3.79 | :     |       | 1.10 | .75  | 13.83 |
| Red Deer             |  |   | •    |  | 2.10   | 5.07  | 4.89  | 3.30 | 1.61  | . 78  |      |      | 17.75 |
| Seven Persons        | . 85   | :                                       |      | 1.87   | 1.64   | 5.08  | .07   | 1.45 | 4.65  | . 52  | 1.25 | .15  | 17.53 |
| Sion.                | 2.00   | .37                                     | 1.45 | 98.  | 2.19   | 7.60  | 3.24  | 2.58 | 1.95  | 24    | 1.30 | . 58 | 24.36 |
| Spirit River         | .25  | .12                                     | 96.  | .20  | .50    | 4.10  |       | :    | 4.81  |       | :    | :    | 10.94 |
| Sundial              | - 1  |   | :    | :  | 1.81   | 2.91  | 2.03  | 2.71 | 2.11  | :     | 08:  |      | 12.37 |
| Tilly                | 3.04   | : :                                     |      |  | •      | :     |       |      | :     |       | :    |      | 3.04  |
| Three Hills Creek    | . 70   | .32                                     | 22   | 1.38   | 2.67   | 3.79  | 3.32  | 4.18 | :     | :     |      | :    | 17.13 |
| Waitefield           | 1.30   | .29<br>.89                              | . 52 | 99.  | 2.39   | 4.44  | 3.03  | 3,10 | 1.60  | . 59  | . 74 | .34  | 19.00 |
| Wetaskiwin           | 88.  | 97.                                     | 16.  | 1.03   | 3.35   | 11.27 | 11.85 | 4.70 | 1.50  | .25   | . 50 | .40  | 36.50 |

MAXIMUM AND MINIMUM TEMPERATURES FOR METEOROLOGICAL STATIONS IN ALBERTA FOR 1911.

| STATIONS          |          | Jan.          | Feb.          | Mar. | Apr. | May          | June         | July         | Aug. | Sept.        | Oct. | Nov. | Dec. |
|-------------------|----------|---------------|---------------|------|------|--------------|--------------|--------------|------|--------------|------|------|------|
| Alix              | Maximum  | 42.0          | 45.0          | 64.0 | 71.0 | 80.0<br>27.0 | 78.0         | 83.0         | 77.0 | 72.0         | 71.0 | 62.0 | 65.0 |
| Athabasca Landing | Maximum  | 37.0          | 48.0          | 51.0 | 75.0 | 80.0         | 78.0         | 83.0         | 78.0 | 9.0          | 0.0  | 53.0 | 47.0 |
| Banff             | Maximum  | 35.7          | 36.2          | 51.1 | 63.0 | 74.4         | 76.6         | 86.2         | 76.2 | 72.4         | 64.5 | 45.8 | 39.7 |
| Blairmore         | Maximum  | 39.8<br>-37.8 | 42.8<br>-24.4 | 57.7 | 66.3 | 75.2         | 81.2         | 87.2         | 78.3 | 78.0         | : :  | : :  | : :  |
| Calgary           | Maximum  | 46.0          | 44.0          | 64.0 | 74.0 | 83.0         | 82.0<br>36.0 | 88.0         | 78.0 | 80.0         | 74.0 | 51.0 | 50.0 |
| Cardston          | (Maximum | 42.0          | 45.0          | 60.0 | 70.0 | 83.0         | 85.0         | 89.0         | 86.0 | 87.0<br>19.0 | 84.0 | : :  | : :  |
| Delia             | Maximum  | : :           | : :           | : :  | : :  | : :          | 82.9         | 81.4         | 80.0 | 72.5         | 74.1 | 45.9 | 40.0 |
| Didsbury          | Maximum  | 46.0          | 56.0          | 68.0 | 76.0 | 82.0<br>26.0 | 84.0<br>36.0 | 86.0         | 78.0 | 74.0         | 76.0 | 54.0 | 54.0 |
| Eckville          | Maximum  | 45.0          | 37.0          | 56.0 | 72.0 | 79.0         | 80.0         | 83.0         | : :  | : :          | : :  | : :  |      |
| Edmonton          | Maximum  | 42.0          | 52.0          | 63.0 | 77.0 | 83.0         | 82.0<br>34.0 | 87.0         | 82.0 | 77.0         | 79.0 | 51.0 | 50.0 |
| Endiang           | Maximum  | : :           | : :           | : :  | : :  | 86.0         | 80.5         | 85.0<br>36.2 | 79.0 | 75.0         | 77.0 | 50.0 | 39.0 |

MAXIMUM AND MINIMUM TEMPERATURES FOR METEOROLOGICAL STATIONS IN ALBERTA FOR 1911.—Continued.

| STATIONS                           | Jan. | Feb. | Mar.        | Apr. | May          | June         | July         | Aug. | Sept. | Oet. | Nov.          | Dec.                                  |
|------------------------------------|------|------|-------------|------|--------------|--------------|--------------|------|-------|------|---------------|---------------------------------------|
| Fort Vermilion.                    | 7.0  | 41.0 | 48.5        | 69.0 | 80.3         |              | 89.0         | 73.2 | 71.8  | 69.0 |               | : :                                   |
| Fort Vermilion                     | :::  |      | : :         | 64.0 | 82.2<br>19.0 | 87.0<br>29.0 | 90.3         | 77.5 |       | 76.9 | : :           | · · · · · · · · · · · · · · · · · · · |
| Gilt Edge\Maximum                  | 28.7 | 36.7 | 56.6        | 8.9- | 2            | 88.2<br>30.2 | 80.0         | 82.5 | 75.0  | : :  | : :           | : :<br>: :                            |
| Gleichen(Maximum                   | 41.0 | 35.0 | 67.0        | 76.0 | 84.0         | 85.0<br>35.0 | 92.5         | 30.0 | 71.0  | 76.0 | : :           | · · · · · · · · · · · · · · · · · · · |
| Halkirk(Maximum                    | 34.0 | 32.0 | 55.0        | 71.0 | 85.0         | 84.0<br>36.0 | 85.0<br>36.0 | 79.0 | 73.0  | 70.0 | 50.0          | 42.0                                  |
| Harmattan                          | 47.0 | 52.0 | 64.0        | 72.0 | : :          | 78.0         | 84.0<br>30.0 | 77.0 | 74.0  | 4.0  | 52.0<br>-30.0 | 50.0                                  |
| High River. (Maximum               | 45.0 | 47.0 | 64.0<br>8.0 | 73.0 | 82.0         | 83.0         | 89.0         | 79.0 | 74.0  | 78.0 | 50.0          | 49.0<br>-34.0                         |
| Hillsdown. (Maximum                | 42.6 | 42.0 | 64.0        | 75.0 | 81.0         | 80.0         | 84.0<br>36.0 | 78.0 | 72.0  | 74.0 | 48.0          | 44.0                                  |
| Lacombe Experimental Farm (Maximum | 40.0 | 43.6 | 61.7        | 76.0 | 83.4         | 80.0         | 85.0         | 80.0 | 76.0  | 80.5 | 46.0          | 45.8                                  |
| Lawrence                           | 38.0 | 42.0 | 68.0        | 75.0 | 85.0         | 90.0         | 95.0         | 83.0 | 75.0  | 78.0 | : :           | 49.0<br>-37.0                         |
| Lethbridge                         | 46.0 | 47.2 | 68.6        | 74.5 | 90.8         | 89.1         | 91.8         | 85.6 | 81.8  | 79.4 | 50.8          | 57.6<br>-32.4                         |

| 58.1<br>-34.3                |               | 50.2     | 55.0           | 45.0<br>-32.0 | 39.0<br>-46.0 |                      |         |               | 50.3         |              | 46.0    |
|------------------------------|---------------|----------|----------------|---------------|---------------|----------------------|---------|---------------|--------------|--------------|---------|
| 50.4                         | 52.0<br>-19.0 | 52.6     | 50.0           | 55.0          | 49.9          | 53.0<br>-33.0        | 60.0    | : :           | ::           |              |         |
| 83.0                         | 77.0          | 78.0     | 78.0           | 80.0          | 75.0          | 79.0                 | : :     | : :           | : :          | 78.0         | 86.0    |
| 82.9                         | 76.0          | 75.6     | 81.0           | 84.0<br>28.0  | 77.0          | 79.0                 | 95.0    | : :           | : :          | 74.0         | 82.0    |
| 85.9                         | 83.0<br>28.0  | 79.0     | 82.0<br>35.0   | 92.0          | 77.6          | 77.0                 | 80.0    | 77.0          | ::           | 79.0         | 84.0    |
| 92.5                         | 88.0<br>32.0  | 85.4     | 90.0           | 95.0<br>42.0  | 83.5          | 92.0                 | 83.0    | 85.0<br>32.0  | ::           | 84.0<br>34.0 | 90.0    |
| 86.5<br>35.4                 | 84.0<br>34.0  | 78.2     | 86.0           | 93.0          | 79.3          | 85.0<br>31.0         | 79.0    | 82.0<br>35.0  | : :          | 79.0         | 35.0    |
| 87.6                         | 93.0          | 77.0     | 88.0           | 99.0          | 80.0          | 82.0<br>32.0         | 76.0    | : :           | :::          | 81.0<br>25.0 | 80.0    |
| 75.3                         | -9.5          | 75.0     | 78.0           | 80.0          | 75.0          | 74.0                 | 75.0    | : :           | : :          | : :          | 74.0    |
| 70.5                         | : :           | 56.5     | 0.69           | 84.0          | 54.0          | 51.0                 | 55.0    | : :           | : :          | : :          | 66.0    |
| 49.0                         | -34.0         | 57.0     | 62.0           | : :           | 42.7          | 49.0                 | 49.5    | ::            | ::           | ::           | 58.0    |
| 44.5                         | 43.0          | 43.0     | 49.0           | : :           | 40.5          | 42.0                 | 42.0    | : :           | : :          | : :          | 46.4    |
| Maximum                      | Maximum       | Maximum  | (Minimum       | Maximum       | Maximum       | Maximum.<br>Minimum. | Maximum | Maximum       | Maximum      | Maximum      | Maximum |
| Lethbridge Experimental Farm | Loveland      | Lunnford | Macleod Police | Medicine Hat  | Pakan         | Peace River Crossing | Pembina | Pincher Creek | Playle Creek | Red Deer {   | Sion    |

MAXIMUM AND MINIMUM TEMPERATURES FOR METEOROLOGICAL STATIONS IN ALBERTA FOR 1911.--Continued.

| STATIONS                 | Jan. | Feb. | Mar.          | Apr. | May          | June         | July         | Aug.         | Sept.        | Oct. | Nov  | Dec. |
|--------------------------|------|------|---------------|------|--------------|--------------|--------------|--------------|--------------|------|------|------|
| Spirit River.   Maximum. | 45.0 | 48.0 | 52.0<br>-12.0 | 69.0 | 77.0         | 85.0<br>27.0 | : :          | : :          | 87.0<br>19.0 | : :  |      | : :  |
| Sundial                  | : :  | : :  | : :           |      | 90.0         | 88.0         | 92.0         | 83.0         | 77.0         |      | 59.5 | 56.0 |
| Three Hill Creek(Maximum | 41.0 | 35.0 | 0.0           | 75.0 | 84.0         | 82.0         | 84.0         | 77.0         | ::           |      | : :  | : :  |
| Waitfield\(Maximum\)     | 33.0 | 40.0 | 50.8          | 74.8 | 87.0<br>24.9 | 82.0<br>34.5 | 84 0<br>36.0 | 84.0<br>28.5 | 75.8         | 78.0 | 51.5 | 41.8 |
| Wetaskiwin(Maximum       | 40.0 | 39.0 | 50.8          | 74.0 | 84.0         | 81.0         | 85.0<br>36.0 | 78.0         | 77.0         | 75.0 | 48.0 | 45.0 |

Hours of Sunshine Recorded, 1911.

| STATIONS        | Jan.  | Jan. Feb. | Mar.                    | Apr.  | May June                           | June  | July A      | Aug.        | Sept.       | Aug. Sept. Oct.               |       | Nov. Dec. | Year   |
|-----------------|-------|-----------|-------------------------|-------|------------------------------------|-------|-------------|-------------|-------------|-------------------------------|-------|-----------|--------|
|                 |       |           |                         |       |                                    |       |             |             |             |                               |       |           |        |
| Dunvegan        | 47.9  | 131.2     | 121.1                   | 184.5 | 47.9 131.2 121.1 184.5 246.4 226.7 | 226.7 | 207.4       | 192.4       | 174.2       | 207.4 192.4 174.2 142.2       |       | 70.5 28.1 | 1772.6 |
| Ермоитои        | 66.3  | 164.1     | 190.8                   | 222.9 | 226.2                              | 211.7 | 211.7 259.4 | 217.9       |             | 204.3 159.1 113.3             | 113.3 | 85.4      | 2127.4 |
| FORT VERMILION. | *     | *         | *                       | 165.5 | 165.5 233.8 217.2                  | 217.2 | 262.4 214.2 | 214.2       |             | 140.6                         | 88.2  | *         |        |
| LACOMBE.        | 9.89  | 152.1     | 168.2                   | 227.6 | 230.8                              | 247.4 | 267.7       |             | 235.0 185.7 | 177.3                         | 75.3  | 85.4      | 2122.1 |
| LETHBRIDGE      | 6.101 | 135.9     | 160.4                   |       | 219.8 199.2                        | 296.9 | 329.6       | 261.4 213.2 | 213.2       | 187.1                         | 95.6  | 7.62      | 2280.7 |
| Medicine Hat.   | *     | 154.6     | 154.6 169.0 248.8 237.3 | 248.8 | 237.3                              | 289.0 | 312.6       | 267.4       | 176.1       | 289.0 312.6 267.4 176.1 170.3 | 93.8  | 62.2      |        |
|                 |       |           | _                       | _     | _                                  | _     |             |             | -           |                               |       |           |        |

\*No records furnished.

# DEPARTMENT OF AGRICULTURE

# HAIL INSURANCE, 1911

| Number of contracts  Number of claims for indemnity   | 5,390<br>1,530   |
|---|--|
| Acreage Insured.  |  |
| Wheat   | $199,195  205,562\frac{1}{8}  28,941\frac{5}{8}  13,203\frac{1}{2}  3,718$ |
| Total   | $450,620\frac{1}{4}$   |
| Acreage fully insuredAcreage partially insured  | 380,336 <sup>1</sup> / <sub>4</sub><br>70,284                              |
| Total   | 450,6201   |
| Number of Acres Insured.  |  |
| At rate of 25 cents per acre  | 416,747 5-6  |
| Number of acres fully insuredAcreage partially insured reduced to fully insured   | $380,336\frac{1}{4}$ $36,411$ 7-1  |
| Total   | 416,747 5-6  |
| Total amount of premiums collected \$10   | 04,271.54  |
| Estimated acreage under crop. Approximate proportion of total acreage under crop insu Number of acres damaged. Percentage of insured acres damaged. | red, $25\%$<br>$129,706\frac{1}{2}$  |
| Expenses.   |  |
| Indemnity paid\$19 Stamps, post eards, etc  | 93,309.44<br>340.00<br>7,229.28<br>952.65                                  |
| Total expenses\$20  | 01,831.37  |

#### CROP STATISTICS.

The early part of the season was dry giving excellent opportunity for seeding a large area. Growth, however, was slow at first on account of drouthy conditions. These improved later and not in years were the prospects so bright for a heavy crop as during the middle of the crop growing season, and had the latter part of the season been as favourable for harvesting and threshing as it had been previously for growing, all records would have been broken. Instead, however, of receiving our usual dry weather for the final ripening, harvesting, and threshing operations, the country experienced continued wet weather. This prolonged the growing period and prevented the grain ripening. In many cases this carried the grain into the period when frost might be expected, and in fact some fields were seriously injured. The land being so wet prevented the operation of binders and thus further delayed harvesting.

As a result of these untoward conditions winter set in with a large amount of grain unthreshed and many large areas standing in the stook in the field. Threshing was pushed along as rapidly as possible but a spell of very cold weather early in November again seriously set back all operations. Many of the threshing gangs quit and left for the east. Finer weather later started a few machines, but there was snow and ice on the grain and most of it graded "tough." Winter closed down on a somewhat disappointed lot of farmers.

On account of the delayed threshing it was a very difficult task to obtain anything like accurate returns until quite late the following year. These have been completed and will be found in their proper place. To say they are astonishing as well as most gratifying is putting it mildly. When to this is added the fact that the grain which stood in the stook all winter, and that was looked upon by many as ruined, threshed out in the spring none the worse except for a slight discolouration on the outside of the sheaves (and in fact when sold graded one grade higher than grain from the same field in the fall) our credulity is severely tested. Yet, such were the facts. A light snowfall during the winter and a dry spring helped to redeem the untoward conditions of the fall. Threshing machines were in operation in many districts until into July.

Owing to the prolonged period of ripening and to the fact that much of the grain was cut on the green side, the straw would have made excellent feed and should have been fed to thousands of steers

instead of being burned.

Spring Wheat.—In those sections where, owing to the drouth of the previous year seeded land had been ploughed up, the area sown to spring wheat was very large. This together with the natural increase in new breaking gave a total area of 757,906 acres as against 450,493 acres the previous year. The average yield, despite the adverse harvest conditions, was 20.75 bushels per acre, the highest in five years, and shows what a crop would have been harvested had the season been favourable.

Winter Wheat.—On account of the late moisture of the previous year winter wheat went into winter strongly rooted and in splendid condition. It wintered well and stood the prolonged dry spring very well. A few fields went back, but wherever land had been properly prepared it held its own until the rains came. The average yield for the province is the highest since the big crop of 1908, being 23.74 bushesl per acre as against 29.47 bushels of that year and 23.95 bushels in 1903, the next highest yield. The total acreage

of 182,671 shows there was not much falling off from the estimated

acreage of 200,000 seeded in the fall of 1910.

*Oats*—Owing to very favourable conditions for wheat seeding in the spring of 1910, the area sown to oats fell from 693,901 to 492,589 acres. This loss was practically made up this year when 669,827 acres were sown, for the 1909 crop had an unduly large area. The yield also was the largest in eleven years being an average crop of 41.21 bushels per acre and only exceeded by the crop of 1899 when it was 42.16. The total oat crop was 27,604,903 bushels.

The following tables give the acreage and yield of the various grains by constituencies for the province, with the exception of

the northern districts:

# CROP STATISTICS.

## SPRING WHEAT.

| No. | CROP DISTRICT  | Year                                 | Bushels   | Acreage   | Yield<br>per<br>acre  | Average yield |
|-----|----------------|--------------------------------------|---|---|---|---------------|
| 1   | Cardston       | 1907<br>1908<br>1909<br>1910<br>1911 | 116,277<br>234,811<br>182,570<br>194,513<br>424,385       | 5,718<br>9,371<br>8,404<br>11,044<br>21,570     | 20.33<br>24.73<br>21.72<br>17.61<br>19.67                               | 20.81         |
| 2   | Macleod        | 1907<br>1908<br>1909<br>1910<br>1911 | 90,278<br>196,248<br>344,877<br>56,778<br>375,440         | 4,191<br>9,127<br>14,500<br>10,874<br>18,483    | $\begin{array}{c} 21.51 \\ 20.50 \\ 23.78 \\ 5.22 \\ 20.32 \end{array}$ | 18.27         |
| 3   | Lethbridge     | 1907<br>1908<br>1909<br>1910<br>1911 | 274,036<br>357,432<br>686,885<br>200,368<br>2,767,831     | 10,920<br>17,271<br>35,270<br>29,603<br>133,686 | 25.09<br>20.69<br>19.75<br>6.77<br>20.70                                | 18.60         |
| 4   | Pincher Creek  | 1907<br>1908<br>1909<br>1910<br>1911 | 25,404<br>10,916<br>28,092<br>4,644<br>50,198             | 1,775<br>486<br>1,287<br>559<br>2,467           | 14.31<br>22.46<br>21.82<br>8.31<br>20.35                                | 17.45         |
| 5   | Claresholm     | 1907<br>1908<br>1909<br>1910<br>1911 | 680,721<br>1,081,293<br>1,497,621<br>423,460<br>2,721,764 | 23,996<br>57,209<br>87,780<br>58,134<br>124,761 | 28.36<br>18.90<br>17.06<br>7.28<br>21.82                                | 18.68         |
| 6   | Medicine Hat   | 1907<br>1908<br>1909<br>1910<br>1911 | 76,379<br>81,370<br>317,951<br>84,927<br>708,502          | 6,723<br>10,581<br>13,945<br>12,098<br>38,874   | 11.36<br>7.68<br>22.80<br>7.02<br>18.23                                 | 13.41         |
| 7   | Nanton         | 1907<br>1908<br>1909<br>1910<br>1911 | 154,349<br>273,127<br>407,411<br>109,392<br>1,038,836     | 7,916<br>14,518<br>21,267<br>22,444<br>41,341   | 19.49<br>18.81<br>19.15<br>4.87<br>25.39                                | 17.54         |
| 8   | High River     | 1907<br>1908<br>1909<br>1910<br>1911 | 20,222<br>85,256<br>139,885<br>60,221<br>502,921          | 1,590<br>4,252<br>6,559<br>10,013<br>18,536     | 12.71 $20.05$ $21.33$ $6.01$ $27.13$                                    | 17.44         |
| 9   | Rocky Mountain | 1907<br>1908<br>1909<br>1910<br>1911 |   |   |   | • • • •       |
| 10  | Okotoks        | 1907<br>1908<br>1909<br>1910<br>1911 | 14,385<br>32,954<br>81,356<br>60,278<br>250,303           | 844<br>1,363<br>3,990<br>4,961<br>9,005         | 17.04<br>24.17<br>20.37<br>12.15<br>27.79                               | 20.30         |

#### Spring Wheat.—Continued.

| No. | CROP DISTRICT | Year                                 | Bushels  | Acreage  | Yield<br>per<br>acre                      | Average<br>yield |
|-----|---------------|--------------------------------------|--|--|---|------------------|
| 11  | Cochrane      | 1907<br>1908<br>1909<br>1910<br>1911 | 840<br>2,287<br>8,889<br>3,570<br>13,145               | 74<br>141<br>404<br>574<br>902   | 11.35<br>16.21<br>21.50<br>6.22<br>14.56  | 13.96            |
| 12  | Gleichen      | 1907<br>1908<br>1909<br>1910<br>1911 | 18,525<br>37,085<br>159,389<br>207,082<br>906,770      | $\begin{array}{c} 1,005 \\ 1,447 \\ 6,670 \\ 21,804 \\ 52,855 \end{array}$ | 18.23<br>25.62<br>23.89<br>9.50<br>17.15  | 18.87            |
| 13  | Didsbury      | 1907<br>1908<br>1909<br>1910<br>1911 | 6,744<br>21,878<br>72,778<br>88,403<br>258,287         | 455<br>890<br>2,966<br>8,598<br>14,903                                     | 14.82<br>24.58<br>24.53<br>10.28<br>17.33 | 18.30            |
| 14  | Olds          | 1907<br>1908<br>1909<br>1910<br>1911 | 5,349<br>12,635<br>51,780<br>46,544<br>116,118         | 427<br>665<br>1,926<br>4,114<br>5,307                                      | 12.52<br>19.00<br>26.88<br>11.31<br>21.88 | 18.31            |
| 15  | Stettler      | 1907<br>1908<br>1909<br>1910<br>1911 | 76,941<br>194,522<br>313,710<br>595,639<br>836,811     | 4,358<br>9,386<br>16,513<br>41,998<br>37,060                               | 17.65<br>20.72<br>18.99<br>14.18<br>22.58 | 18.82            |
| 16  | Sedgewick     | 1907<br>1908<br>1909<br>1910<br>1911 | 68,952<br>281,455<br>522,373<br>1,492,032<br>1,810,155 | 3,922<br>16,650<br>36,374<br>79,504<br>92,960                              | 17.58<br>16.90<br>14.36<br>18.77<br>19.47 | 17.41            |
| 17  | Innisfail     | 1907<br>1908<br>1909<br>1910<br>1911 | 3,409<br>14,728<br>21,508<br>28,105<br>26,5 <b>0</b> 8 | 259<br>714<br>940<br>1,625<br>1,111  | 13.16<br>20.62<br>22.87<br>17.30<br>23.86 | 19.56            |
| 18  | Red Deer      | 1907<br>1908<br>1909<br>1910<br>1911 | 5,403<br>12,472<br>16,299<br>44,112<br>72,837          | 323<br>598<br>727<br>2,359<br>3,419  | 16.72<br>20.85<br>22.41<br>18.70<br>21.30 | 19.99            |
| 19  | Lacombe       | 1907<br>1908<br>1909<br>1910<br>1911 | 12,142<br>21,186<br>32,930<br>111,584<br>183,480       | 796<br>933<br>1,611<br>6,831<br>7,888                                      | 15.25<br>22.70<br>20.44<br>16.34<br>23.26 | 19.59            |
| 20  | Ponoka        | 1907<br>1908<br>1909<br>1910<br>1911 | 19,068<br>38,825<br>43,337<br>78,064<br>90,153         | 1,033<br>1,911<br>2,106<br>3,279<br>3,893                                  | 18.45 $20.31$ $20.57$ $23.81$ $23.15$     | 21.25            |

Spring Wheat.—Continued.

|     | -             |                                      |  |  |  |               |
|-----|---------------|--------------------------------------|--|--|--|---------------|
| No. | CROP DISTRICT | Year                                 | Bushels  | Acreage                                      | Yield<br>per<br>acre                               | Average yield |
| 21  | Wetaskiwin    | 1907<br>1908<br>1909<br>1910<br>1911 | 24,441<br>30,438<br>28,973<br>51,691<br>100,886    | 1,409<br>1,590<br>1,295<br>2,767<br>3,721    | 17.34<br>19.14<br>22.38<br>18.68<br>27.11          | 20.93         |
| 22  | Leduc         | 1907<br>1908<br>1909<br>1910<br>1911 | 24,527<br>42,028<br>21,256<br>33,986<br>42,793     | 1,776<br>2,232<br>881<br>1,475<br>1,917      | 13.81<br>18.82<br>24.17<br>23.04<br>22.32          | 20.43         |
| 23  | Camrose       | 1907<br>1908<br>1909<br>1910<br>1911 | 97,734<br>174,935<br>139,720<br>209,410<br>365,768 | 6,188<br>9,451<br>8,144<br>14,014<br>14,899  | 15.79<br>18.50<br>17.15<br>14.94<br>24.55          | 18.18         |
| 24  | Alexandra     | 1907<br>1908<br>1909<br>1910<br>1911 | 23,145<br>108,590<br>245,989<br>405,575<br>591,678 | 1,599<br>6,081<br>12,146<br>30,427<br>36,264 | 14.47<br>17.85<br>20.52<br>13.35<br>16.82          | 16.60         |
| 25  | Vermilion:    | 1907<br>1908<br>1909<br>1910<br>1911 | 25,683<br>61,319<br>248,260<br>373 908<br>442,335  | 1,555<br>4,003<br>11,278<br>28,075<br>24,995 | 16.51<br>15.31<br>22.01<br>13.32<br>17.70          | 16.97         |
| 26  | Vegreville    | 1907<br>1908<br>1909<br>1910<br>1911 | 84,662<br>155,416<br>199,327<br>166,403<br>388,928 | 6,157<br>9,503<br>10,033<br>15,002<br>18,661 | 13.75<br>16.35<br>19.87<br>12.56<br>20.84          | 16.67         |
| 27  | Strathcona    | 1907<br>1908<br>1909<br>1910<br>1911 | 50,828<br>64,089<br>55,557<br>78,281<br>115,720    | 3,262<br>3,247<br>2,573<br>3,749<br>4,528    | 15.58<br>19.73<br>21.59<br>20.88<br>25.55          | 23.66         |
| 28  | Stony Plain   | 1907<br>1908<br>1909<br>1910<br>1911 | 52,699<br>63,079<br>52,909<br>78,325<br>115,841    | 3,625<br>3,190<br>2,945<br>4,371<br>5,487    | 14.53<br>19.77<br>17.96<br>17.92<br>21.11          | 18.25         |
| 29  | Lac Ste. Anne | 1907<br>1908<br>1909<br>1910<br>1911 | 851<br>2,349<br>321<br>1,221<br>1,326              | 36<br>178<br>9<br>46<br>61                   | 23. <b>6</b> 3<br>13.19<br>35.66<br>26.54<br>21.74 | 24.15         |
| 30  | Pembina       | 1907<br>1908<br>1909<br>1910<br>1911 | 2,673<br>5,310<br>1,882<br>3,861<br>4,331          | 168<br>270<br>114<br>203<br>213              | 15.91<br>19.66<br>16.50<br>19.30<br>20.33          | 18.34         |

# DEPARTMENT OF AGRICULTURE

# Spring Wheat.—Continued.

|     | 1             |                                      |  |   |   |               |
|-----|---------------|--------------------------------------|--|---|---|---------------|
| No. | CROP DISTRICT | Year                                 | Bushels  | Acreage                                     | Yield<br>per<br>acre                      | Average yield |
| 31  | St. Albert    | 1907<br>1908<br>1909<br>1910<br>1911 | 4,145<br>31,649<br>13,741<br>12,478<br>14,966      | 325<br>1,612<br>717<br>446<br>686           | 12.75<br>19.63<br>19.14<br>27.98<br>21.81 | 20.26         |
| 32  | Sturgeon      | 1907<br>1908<br>1909<br>1910<br>1911 | 28,084<br>58,247<br>27,150<br>69,393<br>46,775     | 1,964<br>3,219<br>1,392<br>3,183<br>2,096   | 14.29<br>18.09<br>19.50<br>21.80<br>22.31 | 19.19         |
| 33  | Victoria      | 1907<br>1908<br>1909<br>1910<br>1911 | 85,794<br>146,942<br>146,786<br>230,093<br>275,436 | 5,955<br>7,820<br>7,484<br>12,825<br>11,729 | 14.40<br>18.79<br>19.90<br>17.94<br>23.48 | 18.90         |
| 34  | Pakan         | 1907<br>1908<br>1909<br>1910<br>1911 | 10,585<br>14,035<br>30,041<br>39,341<br>45,834     | 580<br>749<br>1,385<br>1,824<br>2,750       | 18.25<br>18.73<br>21.69<br>21.56<br>16.67 | 19.38         |
| 35  | Athabasca     | 1907<br>1908<br>1909<br>1910<br>1911 | 20,173<br>964<br>2,477<br>2,878                    | 932<br>31<br>105<br>194                     | 21.64<br>31.09<br>23.58<br>14.84          | 18.23         |
| 36  | Peace River   | 1907<br>1908<br>1909<br>1910<br>1911 | 22,704<br>11,425<br>29,396<br>23,177               | 674<br>732<br>1,476<br>878                  | 33.68<br>15.60<br>19.92<br>26.40          | 23.90         |

## WINTER WHEAT.

| No. | CROP DISTRICT | Year                                 | Bushels  | Acreage  | Yield<br>per<br>acre                      | Average yield |
|-----|---------------|--------------------------------------|--|--|---|---------------|
| 1   | Cardston      | 1907<br>1908<br>1909<br>1910<br>1911 | 387,011<br>380,625<br>733,626<br>598,671<br>1,155,096                          | 12,782<br>14,153<br>28,227<br>32,189<br>46,318 | 30.27<br>26.89<br>25.99<br>18.59<br>24.94 | 25,43         |
| 2   | Macleod       | 1907<br>1908<br>1909<br>1910<br>1911 | 33,744<br>48,858<br>105,557<br>18,337<br>291,498                               | 1,342<br>1,483<br>3,911<br>5,580<br>9,367      | 25.14<br>32.94<br>26.98<br>12.25<br>31.12 | 25.69         |
| 3   | Lethbridge    | 1907<br>1908<br>1909<br>1910<br>1911 | $\begin{bmatrix} 134,241\\ 126,912\\ 212,852\\ 40,709\\ 199,664 \end{bmatrix}$ | 5,235<br>4,112<br>8,767<br>4,580<br>14,639     | 25.64<br>30.86<br>24.27<br>8.89<br>13.64  | 20.66         |

WINTER WHEAT.—Continued.

| No. | CROP DISTRICT  | Year                                   | Bushels  | Acreage                                       | Yield<br>per<br>acre   | Average<br>yield |
|-----|----------------|--|--|---|--|------------------|
| 4   | Pincher Creek  | 1907<br>1908<br>1909<br>1910<br>1911   | 172,167<br>218,656<br>193,878<br>300,288<br>494,925                                  | 7,583<br>8,175<br>8,182<br>15,942<br>22,594   | 22.70<br>26.74<br>23.69<br>18.84<br>21.91                                | 22.77            |
| 5   | Claresholm     | 1907<br>1908<br>1909<br>1910<br>1911   | 297,500<br>471,399<br>278,989<br>67,114<br>548,418                                   | 11,955<br>16,801<br>9,836<br>7,054<br>23,055  | 24.88<br>28.05<br>28.36<br>9.52<br>23.80                                 | 22.92            |
| 6   | Medicine Hat   | 1907<br>1908<br>1909<br>1910<br>1911   | 17,575<br>8,858<br>33,662<br>26,531<br>247   | 1,038<br>335<br>1,382<br>1,829<br>12          | 16.93<br>26.44<br>24.35<br>14.50<br>20.58                                | 20.56            |
| 7   | Nanton         | 1907<br>1908<br>1909<br>1910<br>1911   | 2 15,367<br>279,617<br>153,744<br>52,896<br>561,238                                  | 10,129<br>9,697<br>8,039<br>4,819<br>19,146   | 21.26<br>28.83<br>19.12<br>10.98<br>29.31                                | 21.90            |
| 8   | High River     | 1907<br>1908<br>1909<br>1910<br>1911   | 316,492<br>670,678<br>321,389<br>110,641<br>387,184                                  | 25,998<br>21,745<br>9,413<br>12,840<br>13,392 | 12.17<br>30.84<br>34.13<br>8.62<br>28.91                                 | 22.93            |
| 9   | Rocky Mountain | 1907<br>1908<br>1909<br>1910<br>1911   | 214  | 10  | 21.40  | 21.40            |
| 10  | Okotoks        | 1907<br>1908<br>1909<br>1910<br>1911   | 67,472<br>76,751<br>47,417<br>48,465<br>914,542                                      | 3,515<br>2,921<br>2,713<br>3,336<br>15,848    | 19.19<br>26.27<br>17.47<br>14.53<br>27.01                                | 20.89            |
| 11  | Cochrane       | 1907<br>1908<br>1909<br>1910<br>1911   | $\begin{array}{c} 23,709 \\ 44,830 \\ 21,292 \\ 94,251 \\ \hline 36,935 \end{array}$ | 1,461<br>1,691<br>1,440<br>6,913<br>2,244     | 16.22<br>26.51<br>14.78<br>13.63<br>16.46                                | 17.52            |
| 12  | Gleichen       | 1907<br>1908<br>. 1909<br>1910<br>1911 | 33,602<br>127,689<br>43,821<br>94,029<br>89,347                                      | 2,085<br>3,921<br>1,605<br>8,682<br>4,859     | $\begin{array}{c} 16.11 \\ 32.55 \\ 27.30 \\ 10.83 \\ 18.38 \end{array}$ | 21.03            |
| 13  | Didsbury       | 1907<br>1908<br>1909<br>1910<br>1911   | $\begin{array}{c} 74,387 \\ 272,121 \\ 42,937 \\ 215,593 \\ 73,794 \end{array}$      | 4,241<br>8,776<br>2,096<br>13,746<br>3,773    | 17.54<br>31.00<br>20.47<br>15.68<br>19.56                                | 20.85            |

#### WINTER WHEAT.—Continued.

| -   |               |                                       |  |   |   |                  |
|-----|---------------|---------------------------------------|--|---|---|------------------|
| No. | CROP DISTRICT | Year                                  | Bushels  | Acreage                                   | Yield<br>per<br>acre                      | Average<br>yield |
| 14  | Olds          | 1907<br>1908<br>1909<br>1910<br>1911  | 15,448<br>27,824<br>33,225<br>33,730<br>6,392  | 1,058<br>1,357<br>1,739<br>2,112<br>1,032 | 14.60<br>20.50<br>19.10<br>15.97<br>6.19  | 15.27            |
| 15  | Stettler      | 1907<br>1908<br>1909<br>1910<br>1911  | 6,953<br>17,236<br>2,601<br>1,861<br>25,392    | 214<br>749<br>247<br>145<br>1,311         | 32.49<br>23.01<br>10.53<br>12.83<br>26.99 | 21.79            |
| 16  | Sedgewick     | 1907<br>1908<br>1909<br>1910<br>1911  | 57<br>998<br>1,324<br>39,094<br>5,854          | 2<br>75<br>77<br>2,578<br>300             | 28.50<br>13.30<br>17.19<br>15.16<br>17.68 | 18.36            |
| 17  | Innisfail     | 1907<br>1908<br>1909<br>1910-<br>1911 | 8,652<br>38,906<br>7,436<br>39,713<br>19 257   | 832<br>1,419<br>404<br>1,897<br>984       | 10.39 $27.41$ $15.92$ $20.93$ $19.57$     | 18.84            |
| 18  | Red Deer      | 1907<br>1908<br>1909<br>1910<br>1911  | 25,965<br>34,363<br>15,350<br>49,117<br>17,786 | 1,133<br>1,121<br>963<br>2,878<br>690     | 22.91<br>30.65<br>15.94<br>17.07<br>25.78 | 22.47            |
| 19  | Lacombe       | 1907<br>1908<br>1909<br>1910<br>1911  | 11,374<br>28,624<br>20,231<br>91,034<br>31,570 | 500<br>1,136<br>1,270<br>3,905<br>2,535   | 22.74<br>25.19<br>15.92<br>23.31<br>12.45 | 19.92            |
| 20  | Ponoka        | 1907<br>1908<br>1909<br>1910<br>1911  | 5,088<br>5,627<br>9,794<br>11,625<br>18,175    | 209<br>252<br>550<br>635<br>733           | 24.34<br>22.32<br>17.88<br>18.31<br>24.79 | 21.52            |
| 21  | Wetaskiwin    | 1907<br>1908<br>1909<br>1910<br>1911  | 3,968<br>1,906<br>9,314<br>34,031<br>59,813    | 169<br>99<br>418<br>1,631<br>2,470        | 23.42<br>19.25<br>22.27<br>20.87<br>24.22 | 21.53            |
| 22  | Leduc         | 1907<br>1908<br>1909<br>1910<br>1911  | 3,656<br>8,492<br>3,063<br>27,074<br>26,856    | 176<br>310<br>193<br>1,131<br>1,144       | 20.77<br>27.39<br>15.87<br>23.89<br>23.47 | 22.27            |
| 23  | Camrose       | 1907<br>1908<br>1909<br>1910<br>1911  | 4,196<br>3,180<br>5,233<br>17,598<br>11,603    | 227<br>146<br>328<br>1,078<br>556         | 18.48 $21.78$ $15.95$ $16.32$ $20.87$     | 18.68            |

WINTER WHEAT.—Continued.

| No. | CROP DISTRICT | Year                                 | Bushels                                      | Acreage                             | Yield<br>per<br>acre                      | Average yield |
|-----|---------------|--------------------------------------|--|-------------------------------------|---|---------------|
| 24  | Alexandra     | 1907<br>1908<br>1909<br>1910<br>1911 | 281<br>92<br>32<br>21,266<br>15,913          | 19<br>5<br>1<br>1,331<br>708        | 14.78<br>18.40<br>32.00<br>15.98<br>22.47 | 20.72         |
| 25  | Vermilion     | 1907<br>1908<br>1909<br>1910<br>1911 | 270<br>781<br>31<br>5,256<br>504             | 18<br>41<br>3<br>288<br>37          | 15.00<br>19.04<br>10.33<br>18.25<br>13.89 | 15.30         |
| 26  | Vegreville    | 1907<br>1908<br>1909<br>1910<br>1911 | 3,525<br>2,271<br>1,612<br>19,177<br>1,823   | 228<br>97<br>210<br>1,271<br>84     | 15.46<br>23.41<br>7.67<br>15.09<br>21.70  | 16.66         |
| 27  | Strathcona    | 1907<br>1908<br>1909<br>1910<br>1911 | 6,823<br>8,155<br>4,595<br>15,157<br>23,848  | 278<br>271<br>159<br>671<br>858     | 24.54<br>30.09<br>28.90<br>22.59<br>27.79 | 26.78         |
| 28  | Stony Plain   | 1907<br>1908<br>1909<br>1910<br>1911 | 4,985<br>7,940<br>10,198<br>45,640<br>84,914 | 283<br>401<br>710<br>1,918<br>4,257 | 17.61<br>19.80<br>14.35<br>23.71<br>19.95 | 19.08         |
| 29  | Lac Ste. Anne | 1907<br>1908<br>1909<br>1910<br>1911 | 760<br>172<br>808                            | 36<br>9                             | 21.11<br>19.11<br>31.07                   | 23.76         |
| 30  | Pembina       | 1907<br>1908<br>1909<br>1910<br>1911 | 1,164<br>3,850                               | 46<br>154                           | 25.30<br>25.00                            | 25.15         |
| 31  | St. Albert    | 1907<br>1908<br>1909<br>1910<br>1911 | 826<br>3,453<br>5,359<br>17,629              | 51<br>150<br>182<br>659             | 16.19<br>23.00<br>29.45<br>26.75          | 19.07         |
| 32  | Sturgeon      | 1907<br>1908<br>1909<br>1910<br>1911 | 1,681<br>4,631<br>2,847<br>12,070<br>26,175  | 72<br>148<br>146<br>502<br>990      | 23.34<br>31.29<br>19.50<br>24.04<br>26.45 | 24.92         |
| 33  | Victoria      | 1907<br>1908<br>1909<br>1910<br>1911 | 841<br>955<br>1,565<br>13,475<br>40,218      | 50<br>34<br>83<br>595<br>1,418      | 16.82<br>28.08<br>18.85<br>22.65<br>28.38 | 22.95         |

### WINTER WHEAT.—Continued.

| No. | CROP DISTRICT | Year                                 | Bushels               | Acreage              | Yield<br>per<br>acre        | Average<br>yield |
|-----|---------------|--------------------------------------|-----------------------|----------------------|-----------------------------|------------------|
| 34  | Pakan         | 1907<br>1908<br>1909<br>1910<br>1911 | 363<br>2,742<br>2,529 | 12<br><br>130<br>176 | 30.25<br><br>21.09<br>14.37 | 13.14            |
| 35  | Athabasca     | 1907<br>1908<br>1909<br>1910<br>1911 | 305<br><br>856<br>32  | 35<br><br>33<br>2    | 8.71<br>25.94<br>26.00      | 20.21            |
| 36  | Peace River   | 1907<br>1908<br>1909<br>1910<br>1911 | 2,818                 | 127                  | 22.19                       | 22.19            |

## OATS.

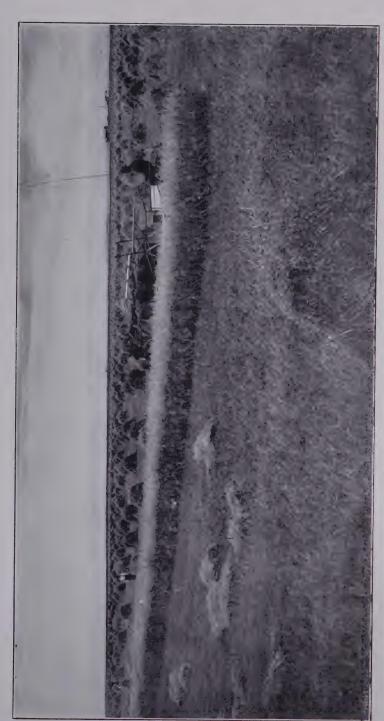
| No. | CROP DISTRICT | Year                                 | Bushels  | Acreage                                      | Yield<br>per<br>acre                      | Average yield |
|-----|---------------|--------------------------------------|--|--|---|---------------|
| 1   | Cardston      | 1907<br>1908<br>1909<br>1910<br>1911 | 333,606<br>364,944<br>708,804<br>38,167<br>507,836   | 9,280<br>10,034<br>17,111<br>2,291<br>9,753  | 35.94<br>36.37<br>41.42<br>16.66<br>53.07 | 36.69         |
| 2 . | Macleod       | 1907<br>1908<br>1909<br>1910<br>1911 | 37,387<br>60,292<br>209,087<br>2,223<br>111,063      | 1,218<br>1,903<br>5,360<br>70<br>2,594       | 30.69<br>31.68<br>39.01<br>31.76<br>42.85 | 35.19         |
| 3   | Lethbridge    | 1907<br>1908<br>1909<br>1910<br>1911 | 215,119<br>323,873<br>536,527<br>56,526<br>1,010,669 | 6,223<br>10,182<br>17,808<br>2,644<br>23,804 | 34.56<br>31.80<br>30.12<br>21.37<br>42.46 | 32.06         |
| 4   | Pincher Creek | 1907<br>1908<br>1909<br>1910<br>1911 | 193,398<br>254,533<br>212,532<br>27,292<br>197,796   | 6,002<br>7,746<br>5,222<br>1,785<br>5,249    | 32.22<br>32.85<br>40.69<br>15.29<br>37.68 | 34.74         |
| 5   | Claresholm    | 1907<br>1908<br>1909<br>1910<br>1911 | 251,552<br>404,143<br>783,121<br>14,330<br>768,370   | 8,055<br>11,985<br>21,499<br>1,424<br>17,126 | 31.22<br>33.72<br>36.42<br>10.06<br>44.87 | 31.25         |
| 6   | Medicine Hat  | 1907<br>1908<br>1909<br>1910<br>1911 | 87,573<br>60,662<br>378,815<br>25,300<br>495,422     | 4,250<br>4,099<br>9,650<br>-1,958<br>13,416  | 20.60<br>14.79<br>39.24<br>12.92<br>36.93 | 24.89         |

Oats.—Continued.

| No. | CROP DISTRICT  | Year                                 | Bushels   | Acreage  | Yield<br>per<br>acre                      | Average yield |
|-----|----------------|--------------------------------------|---|--|---|---------------|
| 7   | Nanton         | 1907<br>1908<br>1909<br>1910<br>1911 | 305,860<br>463,009<br>908,742<br>108,647<br>1,148,908     | 8,014<br>14,140<br>28,091<br>5,906<br>21,832   | 38.16<br>32.74<br>32.34<br>18.23<br>52.62 | 34.81         |
| 8   | High River     | 1907<br>1908<br>1909<br>1910<br>1911 | 529,452<br>1,739,964<br>2,663,238<br>175,576<br>2,342,098 | 17,089<br>39,322<br>67,942<br>13,517<br>45,926 | 30.98<br>44.24<br>39.15<br>12.99<br>50.99 | 35.67         |
| 9 . | Rocky Mountain | 1907<br>1908<br>1909<br>1910<br>1911 | 600   | 35<br>60                                       | 17.14<br>21.23                            | 19.73         |
| 10  | Okotoks        | 1907<br>1908<br>1909<br>1910<br>1911 | 296,639<br>652,825<br>1,148,105<br>79,742<br>914,542      | 7,785<br>15,519<br>25,762<br>5,230<br>15,848   | 38.10<br>42.06<br>44.56<br>15.25<br>57.70 | 39.53         |
| 11  | Cochrane       | 1907<br>1908<br>1909<br>1910<br>1911 | 123,876<br>115,721<br>430,001<br>77,213<br>294,110        | 4,367<br>2,998<br>9,816<br>4,501<br>8,385      | 28.36<br>28.59<br>44.87<br>17.15<br>35.07 | 30.81         |
| 12  | Gleichen       | 1907<br>1908<br>1909<br>1910<br>1911 | 322,008<br>842,358<br>1,977,643<br>415,800<br>2,185,033   | 9,648<br>19,119<br>41,536<br>24,298<br>42,615  | 33.37<br>44.05<br>47.61<br>17.11<br>51.27 | 38.68         |
| 13  | Didsbury       | 1907<br>1908<br>1909<br>1910<br>1911 | 559,889<br>1,214,959<br>1,974,309<br>747,948<br>1,122,678 | 19,202<br>29,547<br>50,199<br>35,779<br>37,909 | 29.15<br>41.11<br>39.33<br>20.90<br>29.66 | 32.03         |
| 14  | Olds           | 1907<br>1908<br>1909<br>1910<br>1911 | 326,430<br>473,040<br>861,769<br>293,535<br>873,467       | 12,020<br>15,318<br>23,814<br>14,484<br>22,711 | 27.15<br>30.88<br>36.18<br>20.27<br>38.46 | 30.58         |
| 15  | Stettler       | 1907<br>1908<br>1909<br>1910<br>1911 | 331,861<br>638,303<br>729,909<br>425,819<br>956,802       | 9,217<br>15,318<br>22,972<br>22,632<br>22,529  | 36.00<br>36.79<br>32.10<br>18.81<br>42.47 | 33.23         |
| 16  | Sedgewick      | 1907<br>1908<br>1909<br>1910<br>1911 | 156,170<br>536 623<br>749,583<br>595,764<br>1,453,396     | 4,413<br>15,922<br>28,206<br>27,151<br>33,257  | 35.38<br>33.70<br>26.57<br>21.94<br>43.70 | 32.25         |

# Oats.—Continued.

| No. | CROP DISTRICT | Year                                 | Bushels   | Acreage  | Yield<br>per<br>acre                      | Average<br>yield |
|-----|---------------|--------------------------------------|---|--|---|------------------|
| 17  | Innisfail     | 1907<br>1908<br>1909<br>1910<br>1911 | 205,971<br>365,311<br>576,301<br>469,135<br>693,784       | 8,020<br>10,824<br>16,229<br>16,805<br>16,824  | 25.68<br>33.75<br>35.50<br>27.92<br>41.24 | 32.81            |
| 18  | Red Deer      | 1907<br>1908<br>1909<br>1910<br>1911 | 172,855<br>350,666<br>392,701<br>322,763<br>385,448       | 5,923<br>9,644<br>12,397<br>11,421<br>11,103   | 29.18<br>36.36<br>31.67<br>28.26<br>34.72 | 32.03            |
| 19  | Lacombe       | 1907<br>1908<br>1909<br>1910<br>1911 | 352,365<br>452,390<br>638,216<br>872,674<br>853,940       | 12,870<br>12.641<br>20,407<br>27,566<br>22,891 | 27.37<br>35.78<br>31.27<br>31.66<br>37.97 | 32.81            |
| 20  | Ponoka        | 1907<br>1908<br>1909<br>1910<br>1911 | 227,966<br>459,679<br>542,273<br>461,756<br>714,138       | 9,089<br>12,069<br>13,026<br>16,155<br>19,347  | 25.08<br>36.28<br>41.62<br>28.52<br>36.40 | 33. <b>5</b> 8   |
| 21  | Wetaskiwin,   | 1907<br>1908<br>1909<br>1910<br>1911 | 546,844<br>579,347<br>876,408<br>699,722<br>826,391       | 19,322<br>14,441<br>26,969<br>24,106<br>24,531 | 28.30<br>40.11<br>32.45<br>29.02<br>33.69 | 32.71            |
| 22  | Leduc         | 1907<br>1908<br>1909<br>1910<br>1911 | 520,012<br>560,383<br>491,777<br>598,881<br>653,851       | 15,451<br>18,026<br>18,596<br>19,875<br>19,318 | 33.65<br>31.08<br>26.45<br>30.13<br>33.84 | 31.03            |
| 23  | Camrose       | 1907<br>1908<br>1909<br>1910<br>1911 | 626,114<br>1,065,212<br>1,345,214<br>905,425<br>2,242,006 | 21,359<br>28,208<br>43,871<br>44,549<br>48,586 | 29.31<br>37.76<br>30.82<br>20.07<br>46.10 | 32.81            |
| 24  | Alexandra     | 1907<br>1908<br>1909<br>1910<br>1911 | 73,418<br>288,687<br>587,230<br>317,712<br>552,000        | 2,610<br>8,756<br>15,326<br>14,006<br>15,411   | 28.12<br>32.97<br>38.31<br>22.68<br>35.82 | 31.58            |
| 25  | Vermilion     | 1907<br>1908<br>1909<br>1910<br>1911 | 123,800<br>256,070<br>693,011<br>396,993<br>455,330       | 4,000<br>8,321<br>19,175<br>18,480<br>13,326   | 30.95<br>30.77<br>36.14<br>21.48<br>34.16 | 30.70            |
| 26  | Vegreville    | 1907<br>1908<br>1909<br>1910<br>1911 | 503,417<br>1,779,862<br>1,133,872<br>563,020<br>1,367,033 | 17,539<br>27,248<br>36,118<br>32,589<br>35,735 | 28.70<br>28.62<br>31.36<br>17.28<br>38.25 | 28.84            |



HARVEST SCENE, DEMONSTRATION FARM, CLARESHOLM,



# Oats.—Continued.

|     |                | 1                                    |   |  |   |               |
|-----|----------------|--------------------------------------|---|--|---|---------------|
| No. | [CROP DISTRICT | Year                                 | Bushels   | Acreage  | Yield<br>per<br>acre                      | Average yield |
| 27  | Strathcona     | 1907<br>1908<br>1909<br>1910<br>1911 | 453,963<br>515,140<br>680,058<br>590,539<br>913,599   | 13,903<br>13,055<br>20,009<br>17,581<br>21,043 | 32.65<br>39.45<br>33.98<br>33.59<br>43.41 | 36.61         |
| 28  | Stony Plain    | 1907<br>1908<br>1909<br>1910<br>1911 | 242,675<br>304,748<br>441,274<br>352,576<br>405,696   | 8,162<br>9,414<br>13,672<br>11,788<br>15,992   | 29.73<br>32.25<br>32.20<br>29.92<br>25.37 | 29.89         |
| 29  | Lac Ste. Anne  | 1907<br>1908<br>1909<br>1910<br>1911 | 18,277<br>23,311<br>9,644<br>21,611<br>31,866         | 292<br>860<br>357<br>561<br>1,006              | 62.59<br>27.10<br>27.29<br>38.32<br>31.68 | 37.39         |
| 30  | Pembina        | 1907<br>1908<br>1909<br>1910<br>1911 | 22,770<br>46,823<br>80,496<br>148,951<br>103,470      | 876<br>1,889<br>2,862<br>4,758<br>3,296        | 25.99<br>24.78<br>28.11<br>31.31<br>31.39 | 28.31         |
| 31  | St. Albert     | 1907<br>1908<br>1909<br>1910<br>1911 | 269,075<br>502,355<br>602,960<br>647,945<br>597,145   | 11,037<br>14,073<br>17,412<br>16,073<br>16,103 | 24.37<br>35.69<br>34.62<br>40.31<br>37.08 | 34.41         |
| 32  | Sturgeon       | 1907<br>1908<br>1909<br>1910<br>1911 | 405,269<br>564,711<br>606,450<br>884,598<br>1,070,572 | 11,670<br>14,937<br>17,519<br>25,114<br>26,102 | 34.72<br>37.80<br>34.66<br>35.22<br>41.01 | 36.68         |
| 33  | Victoria       | 1907<br>1908<br>1909<br>1910<br>1911 | 357,720<br>421,057<br>737,804<br>639,811<br>1,034,170 | 13,350<br>12,727<br>21,315<br>19,619<br>25,340 | 26.79<br>33.08<br>34.61<br>32.61<br>40.81 | 33.58         |
| 34  | Pakan          | 1907<br>1908<br>1909<br>1910<br>1911 | 72,132<br>54,466<br>85,201<br>174,089<br>247,254      | 2,610<br>2,048<br>2,836<br>6,647<br>9,379      | 27.63<br>26.59<br>30.00<br>26.19<br>26.36 | 27.35         |
| 35  | Athabasca      | 1907<br>1908<br>1909<br>1910<br>1911 | 30,119<br>1,777<br>28,438<br>30,795<br>24,085         | 1,058<br>60<br>649<br>1,033<br>702             | 28.46<br>29.61<br>43.81<br>29.81<br>34.31 | 33.20         |
| 36  | Peace River    | 1907<br>1908<br>1909<br>1910<br>1911 | 6,516<br>3,998<br>4,157<br>5,552<br>51,061            | 413<br>72<br>167<br>190<br>838                 | 15.77<br>55.52<br>24.89<br>29.22<br>60.93 | 37.26         |

BARLEY.

| No. | CROP DISTRICT  | Year                                 | Bushels   | Acreage                                 | Yield<br>per<br>acre                      | Average<br>yield |
|-----|----------------|--------------------------------------|---|---|---|------------------|
| 1   | Cardston       | 1907<br>1908<br>1909<br>1910<br>1911 | 14,276<br>26,925<br>18,610<br>1,594<br>17,134   | 669<br>984<br>631<br>149<br>434         | 21.33<br>27.36<br>29.49<br>10.70<br>39.48 | 25.69            |
| 2   | Macleod        | 1907<br>1908<br>1909<br>1910<br>1911 | 1,311<br>2,722<br>4,674<br>214<br>2,033         | 43<br>80<br>208<br>14<br>44             | 30.48 $34.02$ $22.46$ $15.29$ $46.20$     | 29.69            |
| 3   | Lethbridge     | 1907<br>1908<br>1909<br>1910<br>1911 | 9,738<br>40,917<br>16,308<br>1,082<br>9,971     | 415<br>1,704<br>674<br>48<br>282        | 23.46<br>24.01<br>25.20<br>22.54<br>35.36 | 26.11            |
| 4   | Pincher Creek  | 1907<br>1908<br>1909<br>1910<br>1911 | 4,003<br>4,707<br>17,257<br>106<br>2,442        | 175<br>195<br>402<br>13<br>83           | 22.85<br>24.13<br>42.92<br>8.15<br>28.74  | 25.35            |
| 5   | Claresholm     | 1907<br>1908<br>1909<br>1910<br>1911 | 20,202<br>20,382<br>26,710<br>74<br>9,014       | 1,080<br>915<br>1,086<br>5<br>308       | 18.70<br>22.27<br>24.58<br>14.80<br>29.27 | 21.92            |
| 6   | Medicine Hat   | 1907<br>1908<br>1909<br>1910<br>1911 | 9,174 $3,800$ $37,767$ $1,584$ $30,142$         | 448<br>459<br>1,115<br>147<br>745       | 20.47<br>8.27<br>33.85<br>10 71<br>40.45  | 22.75            |
| 7   | Nanton         | 1907<br>1908<br>1909<br>1910<br>1911 | 14,788<br>25,354<br>11,713<br>40<br>7,809       | 687<br>1,191<br>491<br>4<br>208         | 21.52<br>21.28<br>23.85<br>10.00<br>37.36 | 22.80            |
| 8   | High River     | 1907<br>1908<br>1909<br>1910<br>1911 | 45,036<br>87,323<br>92,268<br>2,424<br>74,219   | 1,349<br>3,738<br>3,350<br>544<br>1,883 | 33.38<br>23.36<br>27.51<br>4.46<br>39.42  | 25.62            |
| 9   | Rocky Mountain | 1907<br>1908<br>1909<br>1910<br>1911 | 114 36  | 6 2                                     | .19                                       | 18.75            |
| 10  | Okotoks        | 1907<br>1908<br>1909<br>1910<br>1911 | 53,416<br>100,836<br>121,253<br>5,245<br>77,173 | 1,927<br>3,284<br>3,997<br>576<br>2,106 | 27.71<br>30.70<br>30.36<br>9.11<br>36.63  | 26.70            |

Barley.—Continued.

| No. | CROP DISTRICT | Year                                 | Bushels  | Acreage                                    | Yield<br>per<br>acre                      | Average yield |
|-----|---------------|--------------------------------------|--|--|---|---------------|
| 11  | Cochrane      | 1907<br>1908<br>1909<br>1910<br>1911 | 19,151<br>26,163<br>75,590<br>5,135<br>18,232      | 982<br>1,158<br>2,361<br>656<br>2,199      | 19.50<br>22.59<br>32.01<br>7.83<br>8.25   | 18.03         |
| 12  | Gleichen      | 1907<br>1908<br>1909<br>1910<br>1911 | 23,917<br>69,641<br>129,349<br>29,387<br>243,822   | 1,186<br>2,572<br>4,759<br>3,776<br>6,758  | 20.16<br>27.07<br>27.14<br>7.78<br>36.08  | 23.64         |
| 13  | Didsbury      | 1907<br>1908<br>1909<br>1910<br>1911 | 73,593<br>194,312<br>270,852<br>90,396<br>95,487   | 3,653<br>7,210<br>10,070<br>5,963<br>4,371 | 20.14<br>26.95<br>26.89<br>15.16<br>21.84 | 22.19         |
| 14  | Olds          | 1907<br>1908<br>1909<br>1910<br>1911 | 34,248<br>52,353<br>114,659<br>43,814<br>97,683    | 1,929<br>2,593<br>3,879<br>2,488<br>3,468  | 17.75<br>20.19<br>29.55<br>17.61<br>25.25 | 22.07         |
| 15  | Stettler      | 1907<br>1908<br>1909<br>1910<br>1911 | 37,243<br>65,054<br>61,635<br>33,026<br>41,754     | 1,751<br>2,459<br>2,515<br>2,369<br>1,328  | 21.26<br>26.45<br>24.50<br>13.98<br>31.44 | 23.52         |
| 16  | Sedgewick     | 1907<br>1908<br>1909<br>1910<br>1911 | 10,736<br>28,358<br>40,810<br>41,622<br>88,023     | 537<br>1,645<br>1,980<br>2,536<br>2,960    | 20.00<br>17.23<br>20.61<br>16.41<br>29.40 | 20.53         |
| 17  | Innisfail     | 1907<br>1908<br>1909<br>1910<br>1911 | 41,566<br>74,126<br>92,235<br>86,434<br>108,114    | 1,981<br>2,974<br>3,672<br>3,756<br>3,307  | 20.98<br>24.92<br>25.11<br>23.01<br>32.69 | 25.34         |
| .18 | Red Deer      | 1907<br>1908<br>1909<br>1910<br>1911 | 20,673<br>50,453<br>78,894<br>65,427<br>78,778     | 867<br>2,057<br>2,992<br>2,944<br>2,632    | 23.84<br>24.52<br>23.37<br>22.22<br>29.93 | 24.77         |
| 19  | Lacombe       | 1907<br>1908<br>1909<br>1910<br>1911 | 32,951<br>73,233<br>81,736<br>141,980<br>143,863   | 1,562<br>2,948<br>3,901<br>5,712<br>4,503  | 21.09<br>24.84<br>20.95<br>24.86<br>31.94 | 24.73         |
| 20  | Ponoka        | 1907<br>1908<br>1909<br>1910<br>1911 | 37,871<br>70,069<br>. 83,400<br>100,462<br>164,786 | 2,099<br>2,753<br>2,536<br>4,438<br>5,597  | 18.04<br>25.45<br>32.92<br>22.64<br>29.44 | 25.69         |

### Barley.—Continued.

| No. | CROP DISTRICT | Year                                 | Bushels  | Acreage                                   | Yield<br>per<br>acre                      | Average<br>yield |
|-----|---------------|--------------------------------------|--|---|---|------------------|
| 21  | Wetaskiwin    | 1907<br>1908<br>1909<br>1910<br>1911 | 62,001<br>52,064<br>65,949<br>88,329<br>87,296     | 3,176<br>2,110<br>3,382<br>3,958<br>3,312 | 19.52<br>24.67<br>19.50<br>22.32<br>26.36 | 24.37            |
| 22  | Leduc         | 1907<br>1908<br>1909<br>1910<br>1911 | 57,719<br>66,440<br>81,947<br>102,406<br>118,571   | 3,120<br>3,466<br>3,658<br>4,052<br>3,961 | 18.50<br>19.16<br>23.40<br>25.27<br>29.93 | 23.25            |
| 23  | Camrose       | 1907<br>1908<br>1909<br>1910<br>1911 | 101,207<br>109,604<br>123,725<br>80,311<br>181,504 | 4,617<br>4,183<br>5,458<br>5,112<br>5,853 | 21.92<br>26.20<br>22.66<br>15.71<br>31.01 | 23.50            |
| 24  | Alexandra     | 1907<br>1908<br>1909<br>1910<br>1911 | 6,470<br>33,606<br>43,714<br>22,878<br>46,493      | 380<br>1,538<br>1,793<br>1,298<br>1,613   | 17.02<br>21.85<br>24.38<br>17.63<br>28.20 | 21.81            |
| 25  | Vermilion     | 1907<br>1908<br>3909<br>1910<br>1911 | 9,820<br>22,370<br>70,678<br>44,365<br>60,808      | 411<br>1,111<br>2,760<br>2,653<br>2,493   | 23.89<br>20.13<br>25.00<br>16.72<br>24.37 | 22.02            |
| 26  | Vegreville    | 1907<br>1908<br>1909<br>1910<br>1911 | 69,249<br>92,954<br>151,299<br>82,250<br>169,530   | 3,303<br>3,993<br>6,251<br>5,897<br>6,212 | 20.83<br>23.27<br>24.20<br>13.94<br>27.29 | 21.90            |
| 27  | Strathcona    | 1907<br>1908<br>1909<br>1910<br>1911 | 85,978<br>96,952<br>162,259<br>164,212<br>217,516  | 4,531<br>3,684<br>5,912<br>5,611<br>6,555 | 18.97<br>26.31<br>27.61<br>29.26<br>37.18 | 27.86            |
| 28  | Stony Plain   | 1907<br>1908<br>1909<br>1910<br>1911 | 34,328<br>85,671<br>117,817<br>96,610<br>180,473   | 2,578<br>2,820<br>4,405<br>4,222<br>6,384 | 13.31<br>30.37<br>26.21<br>22.88<br>28.27 | 24.20            |
| 29  | Lac Ste. Anne | 1907<br>1908<br>1909<br>1910<br>1911 | 820<br>7,083<br>1,496<br>6,293<br>5,004            | 62<br>401<br>136<br>187<br>191            | 13.32<br>17.66<br>11.00<br>33.65<br>31.43 | 21.41            |
| 30  | Pembina       | 1907<br>1908<br>1909<br>1910<br>1911 | 2,613<br>10,946<br>18,494<br>26,926<br>16,133      | 130<br>455<br>886<br>1,083<br>683         | 20.10<br>24.05<br>20.87<br>24.86<br>23.62 | 22.70            |

BARLEY.—Continued.

| No. | CROP DISTRICT | Year                                 | Bushels  | Acreage                                    | Yield<br>per<br>acre                      | Average<br>yield |
|-----|---------------|--------------------------------------|--|--|---|------------------|
| 31  | St. Albert    | 1907<br>1908<br>1909<br>1910<br>1911 | 28,355<br>82,588<br>124,499<br>87,550<br>89,421    | 1,552<br>2,303<br>5,167<br>2,916<br>3,172  | 18.27<br>35.86<br>24.09<br>30.02<br>28.19 | 27.28            |
| 32  | Sturgeon:     | 1907<br>1908<br>1909<br>1910<br>1911 | 56,474<br>117,540<br>147,560<br>186,538<br>196,896 | 3,035<br>4,212<br>5,342<br>6,680<br>7,090  | 18.60<br>27.90<br>27.62<br>27.93<br>27.27 | 25.96            |
| 33  | Victoria      | 1907<br>1908<br>1909<br>1910<br>1911 | 73,759<br>110,894<br>204,984<br>194,514<br>286,543 | 3,933<br>6,348<br>10,512<br>8,565<br>9,397 | 18.65<br>17.46<br>19.52<br>22.71<br>30.49 | 21.76            |
| 34  | Pakan         | 1907<br>1908<br>1909<br>1910<br>1911 | 14,317<br>16,316<br>25,124<br>43,444<br>61,382     | 652<br>678<br>1,115<br>2,059<br>2,876      | 21.95<br>24.06<br>22.53<br>21.09<br>21.34 | 22.19            |
| 35  | Athabasca     | 1907<br>1908<br>1909<br>1910<br>1911 | 10,227<br>460<br>4,511<br>2,625<br>2,717           | 282<br>15<br>178<br>106<br>106             | 36.44<br>30.66<br>25.33<br>24.76<br>25.63 | 28.56            |
| 36  | Peace River   | 1907<br>1908<br>1909<br>1910<br>1911 | 5,569<br>5,546<br>10,232<br>6,818                  | 130<br>227<br>364<br>188                   | 42.83<br>24.43<br>28.11<br>36.26          | 26.32            |

### FLAX.

| No. | CROP DISTRICT | Year                                 | Bushels                                   | Acreage                                | Yield<br>per<br>acre              | Average yield |  |  |  |
|-----|---------------|--------------------------------------|---|--|-----------------------------------|---------------|--|--|--|
| 1   | Cardston      | 1907<br>1908<br>1909<br>1910<br>1911 | 3,358<br>1,780                            | 246<br>147                             | 15.68<br>12.11<br>10.08           | 12.62         |  |  |  |
| 2   | Macleod       | 1907<br>1908<br>1909<br>1910<br>1911 | 165                                       | 33                                     | 5.00                              | 15.34         |  |  |  |
| 3   | Lethbridge    | 1907<br>1908<br>1909<br>1910<br>1911 | 4,823<br>10,064<br>17,166<br>22<br>29,992 | 1,051<br>1,475<br>1,637<br>34<br>2,937 | 4.78 $6.82$ $10.48$ $.65$ $10.21$ | 6.59          |  |  |  |

FLAX.—Continued.

| No. | CROP DISTRICT  | Year   | Bushels  | Acreage                              | Yield<br>per<br>acre                    | Average<br>yield |
|-----|----------------|--|--|--------------------------------------|---|------------------|
| 4   | Pincher Creek  | 1907<br>1908<br>1909<br>1910<br>1911         | 120  | 20                                   | 6.00                                    | 8.01             |
| 5   | Claresholm     | 1907<br>1908<br>1909<br>1910                 | 29,369<br>3,714<br>1,467                         | 3,125<br>436<br>121                  | 9.39<br>8.51<br>12.13<br><br>9.76       | 9.94             |
| 6   | Medicine Hat   | 1911<br>1907<br>1908<br>1909<br>1910<br>1911 | 24,074<br>489<br>3,127<br>1,823<br>393<br>20,634 | 120<br>532<br>174<br>113<br>1,916    | 4.08<br>5.87<br>10.47<br>3.48<br>10.76  | 6.93             |
| 7   | Nanton         | 1907<br>1908<br>1909<br>1910<br>1911         | 7,422<br>6,761<br>2,660                          | 821<br>858<br>454<br>                | 9.04<br>7.88<br>5.85<br>                | 9.56             |
| 8   | High River     | 1907<br>1908<br>1909<br>1910<br>1911         | 1,702<br>9,039<br>911<br>533                     | 257<br>1,237<br>87<br>               | 6.62<br>7.30<br>10.47                   | 8.39             |
| 9 ' | Rocky Mountain | 1907<br>1908<br>1909<br>1910<br>1911         |  |                                      |   |                  |
| 10  | Okotoks        | 1907<br>1908<br>1909<br>1910<br>1911         | 187<br>1,269<br>8,089<br>769<br>260              | 37<br>104<br>420<br>95<br>20         | 5.05<br>12.00<br>19.25<br>8.09<br>13.00 | 11.47            |
| 11  | Cochrane       | 1907<br>1908<br>1909<br>1910<br>1911         | 10<br>378<br>4,958<br>873<br>837                 | 2<br>41<br>206<br>211<br>273         | 5.00<br>9.21<br>24.06<br>4.14<br>3.06   | 9.09             |
| 12  | Gleichen       | 1907<br>1908<br>1909<br>1910<br>1911         | 109<br>6,946<br>51,822<br>12,754<br>20,676       | 21<br>555<br>4,498<br>4,174<br>2,068 | 5.19<br>12.51<br>11.52<br>3.06<br>9.99  | 8.45             |
| 13  | Didsbury       | 1907<br>1908<br>1909<br>1910<br>1911         | 143<br>2,314<br>4,305<br>3,217<br>628            | 15<br>342<br>306<br>1,258<br>111     | 9.53<br>6.76<br>14.06<br>2.57<br>5.66   | 7.71             |

FLAX.—Continued.

| No. | CROP DISTRICT | Year                                 | Bushels                                      | Acreage                                 | Yield<br>per<br>acre                     | Average yield |
|-----|---------------|--------------------------------------|--|---|--|---------------|
| 14  | Olds          | 1907<br>1908<br>1909<br>1910<br>1911 | 41<br>385<br>1,151<br>1,703<br>572           | 4<br>45<br>102<br>244<br>54             | 10.25<br>8.55<br>11.28<br>6.98<br>10.59  | 9.53          |
| 15  | Stettler      | 1907<br>1908<br>1909<br>1910<br>1911 | 2,254<br>8,261<br>10,452<br>10,409<br>12,827 | 402<br>1,019<br>1,282<br>2,405<br>1,643 | 5.60<br>8.10<br>8.15<br>4.33<br>7.81     | 6.79          |
| 16  | Sedgewick     | 1907<br>1908<br>1909<br>1910<br>1911 | 1,461<br>7,761<br>11,069<br>10,369<br>12,596 | 303<br>1,163<br>1,648<br>2,761<br>1,706 | 4.82<br>6.67<br>6.71<br>3.76<br>7.38     | 5.86          |
| 17  | Innisfail     | 1907<br>1908<br>1909<br>1910<br>1911 | 13<br>75<br>120                              | 3<br>7<br>13                            | 4.33<br>10.71<br>9.23                    | 8.09          |
| 18  | Red Deer      | 1907<br>1908<br>1909<br>1910<br>1911 | 15<br>246<br>165<br>397<br>1,375             | 1<br>11<br>13<br>176<br>55              | 15.00<br>22.36<br>12.69<br>2.26<br>25.00 | 15.46         |
| 19  | Lacombe       | 1907<br>1908<br>1909<br>1910<br>1911 | 175<br>246<br>334<br>2,221                   | 10<br>16<br>37<br>261                   | 17.50<br>15.38<br>9.03<br>8.50           | 12.60         |
| 20  | Ponoka        | 1907<br>1908<br>1909<br>1910<br>1911 | 53<br>121<br>314<br>84                       | 7<br>14<br>29<br>61                     | 7.56<br>8.64<br>10.83                    | 10.25         |
| 21  | Wetaskiwin    | 1907<br>1908<br>1909<br>1910<br>1911 | 12<br>229<br>143<br>39                       | 1<br>13<br>22<br>13                     | 12.00<br>17.21<br>6.50<br>3.00           | 12.90         |
| 22  | Leduc         | 1907<br>1908<br>1909<br>1910<br>1911 | 367<br>111                                   | 1<br>15<br>7                            | 16.00<br>24.46<br>15.86                  | 18.77         |
| 23  | Camrose       | 1907<br>1908<br>1909<br>1910<br>1911 | 1,605<br>1,698<br>3,027<br>2,107<br>2,637    | 189<br>149<br>317<br>445<br>328         | 8.49<br>11.39<br>9.54<br>4.51<br>8.04    | 8.39          |

# DEPARTMENT OF AGRICULTURE

# FLAX.—Continued.

| No. | CROP DISTRICT | Year                                 | Bushels                                 | Acreage                            | Yield<br>per<br>acre                  | Average<br>yield |
|-----|---------------|--------------------------------------|---|------------------------------------|---------------------------------------|------------------|
| 24  | Alexandra     | 1907<br>1908<br>1909<br>1910<br>1911 | 516<br>1,914<br>7,241<br>8,513<br>9,503 | 67<br>171<br>750<br>1,444<br>1,228 | 7.70<br>11.19<br>9.65<br>5.89<br>7.74 | ~8.43            |
| 25  | Vermilion     | 1907<br>1908<br>1909<br>1910<br>1911 | 82<br>301<br>1,294<br>2,002<br>1,558    | 16<br>47<br>139<br>686<br>156      | 5.12<br>6.40<br>9.30<br>2.92<br>10.18 | 6.78             |
| 26  | Vegreville    | 1907<br>1908<br>1909<br>1910<br>1911 | 142<br>1,091<br>210<br>580              | 29<br>88<br>12<br>121              | 4.89<br>12.39<br>17.50<br>4.79        | 9.89             |
| 27  | Strathcona    | 1907<br>1908<br>1909<br>1910<br>1911 | 32<br>232                               | 19                                 | 16.00                                 | 14.10            |
| 28  | Stony Plain   | 1907<br>1908<br>1909<br>1910<br>1911 | 50<br>32<br>14                          | 4 1 1                              | 12.50<br>32.00<br>14.00               | 19.50            |
| 29  | Lac Ste. Anne | 1907<br>1908<br>1909<br>1910<br>1911 |   |                                    |                                       |                  |
| 30  | Pembina       | 1907<br>1908<br>1909<br>1910<br>1911 |   |                                    |                                       | i                |
| 31  | St. Albert    | 1907<br>1908<br>1909<br>1910<br>1911 | 25                                      | 3                                  | 8.33                                  | 8.33             |
| 32  | Sturgeon      | 1907<br>1908<br>1909<br>1910<br>1911 | 144                                     | 12                                 | 12.00                                 | 12.00            |
| 33  | Victoria      | 1907<br>1908<br>1909<br>1910<br>1911 | 10<br>77<br>81<br>1,300                 | 1<br>5<br>12<br>260                | 10.00<br>15.40<br>6.75<br>5.00        | 7.43             |

FLAX.—Continued.

| No. | CROP DISTRICT | Year                                 | Bushels | Acreage | Yield<br>per<br>acre | Average yield |
|-----|---------------|--------------------------------------|---------|---------|----------------------|---------------|
| 34  | Pakan         | 1907<br>1908<br>1909<br>1910<br>1911 | 76      | 4       | 19.00                | 19.00         |
| 35  | Athabasca     | 1907<br>1908<br>1909<br>1910         |         |         |                      |               |

# RYE.

| No. | CROP DISTRICT | Year                                 | Bushels            | Acreage        | Yield<br>per<br>acre                  | Average yield |
|-----|---------------|--------------------------------------|--------------------|----------------|---------------------------------------|---------------|
| 1   | Cardston      | 1907<br>1908<br>1909<br>1910<br>1911 | 2,052              | . 102          | 20.11                                 | 20.11         |
| 2   | Macleod       | 1907<br>1908<br>1909<br>1910<br>1911 |                    |                |                                       |               |
| 3   | Lethbridge    | 1907<br>1908<br>1909<br>1910<br>1911 | 345<br>77<br>1,157 | 28<br>14<br>34 | 12.32<br>5.60<br><br>34.02            | 17.31         |
| 4   | Pincher_Creek | 1907<br>1908<br>1909<br>1910<br>1911 |                    |                |                                       |               |
| 5   | Claresholm    | 1907<br>1908<br>1909<br>1910<br>1911 | 28                 | 3              | 9.33                                  | 9.33          |
| 6   | Medicine Hat  | 1907<br>1908<br>1909<br>1910<br>1911 | 132                | 10             | 13.2                                  | 13.2          |
| 7   | Nanton        | 1907<br>1908<br>1909<br>1910<br>1911 |                    |                | · · · · · · · · · · · · · · · · · · · |               |

# Rye.—Continued.

| No. | CROP DISTRICT  | Year                                 | Bushels                               | Acreage                      | Yield<br>per<br>acre                      | Average yield |
|-----|----------------|--------------------------------------|---------------------------------------|------------------------------|---|---------------|
| 8   | High River     | 1907<br>1908<br>1909<br>1910<br>1911 |                                       |                              |   | * * * * 5*    |
| 9   | Rocky Mountain | 1907<br>1908<br>1909<br>1910<br>1911 |                                       |                              |   |               |
| 10  | Okotoks        | 1907<br>1908<br>1909<br>1910<br>1911 | 669<br>924                            | 33<br>  56                   | 20.27<br>16.50                            | 18.38         |
| 11  | Cochrane       | 1907<br>1908<br>1909<br>1910         | 100<br>1,369<br>142                   | 5<br>47<br>29                | 20.00<br>27.01<br>4.90                    | 17.30         |
| 12  | Gleichen       | 1907<br>1908<br>1909<br>1910<br>1911 | · · · · · · · · · · · · · · · · · · · |                              |   | ]<br>         |
| 13  | Didsbury       | 1907<br>1908<br>1909<br>1910<br>1911 | 430<br>881<br>1,692<br>2,042<br>9,661 | 19<br>48<br>69<br>156<br>839 | 22.63<br>19.19<br>24.51<br>13.09<br>11.51 | 18.18         |
| 14  | Olds           | 1907<br>1908<br>1909<br>1910<br>1911 | 1,292<br>92<br>411<br>677<br>124      | 100<br>6<br>23<br>23<br>6    | 12.92<br>15.33<br>17.87<br>29.43<br>20.67 | 19.24         |
| 15  | Stettler       | 1907<br>1908<br>1909<br>1910<br>1911 | 98<br>179<br>113<br>202               | 13<br>7<br>6                 | 24.50<br>13.76<br>16.14<br>33.67          | 22.01         |
| 16  | Sedgewick      | 1907<br>1908<br>1909<br>1910<br>1911 | 23<br>144<br>110<br>152               | 1<br>14<br>7<br>6            | 23.00<br>10.27<br>15.71<br>25.33          | 18.57         |
| 17  | Innisfail      | 1907<br>1908<br>1909<br>1910<br>1911 | 542<br>1,190<br>976<br>752<br>1,051   | 30<br>38<br>53<br>66<br>37   | 18.06<br>31.31<br>18.41<br>11.39<br>28.40 | 21.51         |

Rye.—Continued.

|     | 1               |                                      |   | 1                               |  | 1             |
|-----|-----------------|--------------------------------------|---|---------------------------------|--|---------------|
| No. | CROP DISTRICT   | Year                                 | Bushels                                       | Acreage                         | Yield<br>per<br>acre   | Average yield |
| 18  | Red Deer        | 1907<br>1908<br>1909<br>1910<br>1911 | 1,573<br>1,863<br>1,023<br>1,132<br>1,944     | 81<br>126<br>35<br>114<br>93    | 19.42<br>14.78<br>29.20<br>9.93<br>20.91                                 | 18.84         |
| 19  | Lacombe         | 1907<br>1908<br>1909<br>1910<br>1911 | 2,396<br>2,276<br>3,328<br>4,887<br>4,478     | 98<br>120<br>246<br>190<br>183  | $\begin{array}{c} 24.45 \\ 18.96 \\ 14.00 \\ 25.72 \\ 24.47 \end{array}$ | 21.52         |
| 20  | Ponoka          | 1907<br>1908<br>1909<br>1910<br>1911 | 2,921<br>10,620<br>10,379<br>13,887<br>13,594 | 124<br>626<br>742<br>630<br>622 | 23.55<br>16.96<br>13.98<br>22.04<br>21.85                                | 19.67         |
| 21  | Wetaskiwin      | 1907<br>1908<br>1909<br>1910<br>1911 | 114<br>272<br>2,403<br>616<br>1,969           | 6<br>12<br>118<br>33<br>67      | 19.00<br>22.66<br>20.36<br>18.67<br>29.89                                | 22.01         |
| 22  | Leduc           | 1907<br>1908<br>1909<br>1910<br>1911 | 72  | 4                               | 18.00  | 12.00         |
| 23  | Camrose         | 1907<br>1908<br>1909<br>1910<br>1911 | 386<br>898<br>1,317<br>1,233<br>1,850         | 32<br>46<br>77<br>79<br>91      | 12.06<br>19.52<br>17.10<br>15.61<br>20.33                                | 16.92         |
| `24 | Alexandra       | 1907<br>1908<br>1909<br>1910<br>1911 | 224   | 11                              | 20.36  | 14.12         |
| 25  | Vermilion       | 1907<br>1908<br>1909<br>1910<br>1911 | 24  | 37                              | 24.00  | 20.96         |
| 26. | ·<br>Vegreville | 1907<br>1908<br>1909<br>1910<br>1911 | 927<br>212<br>453                             | 56<br>8<br>47                   | 16.55<br>26.50<br>9.63   | 17.56         |
| 27  | Strathcona      | 1907<br>1908<br>1909<br>1910<br>1911 |   |                                 |  |               |

# 76 DEPARTMENT OF AGRICULTURE

### Rye.—Continued.

| No.  | CROP DISTRICT | Year                                 | Bushels                 | Acreage             | Yield<br>per<br>acre             | Average yield |
|------|---------------|--------------------------------------|-------------------------|---------------------|----------------------------------|---------------|
| 28   | Stony Plain   | 1907<br>1908<br>1909<br>1910<br>1911 | 58<br>68                | 13                  | 4.46                             | 8.73          |
| 29   | Lac Ste. Anne | 1907<br>1908<br>1909<br>1910<br>1911 |                         |                     |                                  |               |
| 30   | Pembina       | 1907<br>1908<br>1909<br>1910<br>1911 |                         |                     |                                  |               |
| 31   | St. Albert    | 1907<br>1908<br>1909<br>1910<br>1911 |                         |                     |                                  |               |
| 32   | Sturgeon      | 1907<br>1908<br>1909<br>1910<br>1911 | 132                     | 8<br><br>15         | 16.50<br>22.75                   | 19.62         |
| 33 , | Victoria      | 1907<br>1908<br>1909<br>1910<br>1911 | 453<br>711<br>503       | 21<br>45<br>34      | 21.57<br>15.80<br>14.79          | 17.38         |
| 34   | Pakan         | 1907<br>1908<br>1909<br>1910<br>1911 | 84<br>364<br>972<br>556 | 3<br>16<br>58<br>27 | 28.00<br>22.75<br>16.76<br>20.59 | 17.62         |
| 35   | Athabasca     | 1907<br>1908<br>1909<br>1910<br>1911 |                         |                     |                                  |               |
| 36   | Peace River   | 1907<br>1908<br>1909<br>1910<br>1911 | 78                      | 5                   | 15.60                            | 15.60         |

SPELTZ.

| No. | CROP DISTRICT  | Year                                 | Bushels                             | Acreage               | Yield<br>per<br>acre               | Average yield |
|-----|----------------|--------------------------------------|-------------------------------------|-----------------------|------------------------------------|---------------|
| 1   | Cardston       | 1907<br>1908<br>1909<br>1910<br>1911 | 356<br>214                          | 31<br>12              | 11.48<br>17.83                     | 14.65         |
| 2   | Macleod        | 1907<br>1908<br>1909<br>1910<br>1911 |                                     |                       |                                    |               |
| 3   | Lethbridge     | 1907<br>1908<br>1909<br>1910<br>1911 | 418<br>670<br>109                   | 10<br>44<br>5         | 41.80<br>15.22<br>20.80            | 25,97         |
| 4   | Pincher Creek  | 1907<br>1908<br>1909<br>1910<br>1911 | 34<br>569<br>949                    | 1<br>12<br>19         | 34.00<br>46.75<br>49.9 <b>5</b>    | 43.56         |
| 5   | Claresholm     | 1907<br>1908<br>1909<br>1910<br>1911 | 695<br>2, <b>7</b> 98<br>836<br>656 | 36<br>160<br>44<br>37 | 19.30<br>17.48<br>19.00            | 18.38         |
| 6   | Medicine Hat   | 1907<br>1908<br>1909<br>1910<br>1911 | 5<br>10<br>933<br>625               | 1<br>3<br>29<br>27    | 5.00<br>3.33<br>32.16<br><br>23.15 | 15.91         |
| 7   | Nanton         | 1907<br>1908<br>1909<br>1910<br>1911 | 136                                 | 10                    | 13.60                              | 13.60         |
| 8   | High River     | 1907<br>1908<br>1909<br>1910<br>1911 |                                     |                       |                                    |               |
| 9   | Rocky Mountain | 1907<br>1908<br>1909<br>1910<br>1911 |                                     |                       |                                    |               |
| 10  | Okotoks        | 1907<br>1908<br>1909<br>1910<br>1911 |                                     |                       |                                    |               |

# DEPARTMENT OF AGRICULTURE

### Speltz.—Continued.

| No. | CROP DISTRICT | Year                                 | Bushels                      | Acreage             | Yield<br>per<br>acre                 | Average yield |
|-----|---------------|--------------------------------------|------------------------------|---------------------|--------------------------------------|---------------|
| 11  | Cochrane      | 1907<br>1908<br>1909<br>1910<br>1911 | 420                          | 21                  | 20.00                                | 20.00         |
| 12  | Gleichen      | 1907<br>1908<br>1909<br>1910<br>1911 | 2,513                        | 69                  | 36.42<br>12.66                       | 24.54         |
| 13  | Didsbury      | 1907<br>1908<br>1909<br>1910<br>1911 | 564<br>718<br>94             | 38<br>22<br>12      | 14.84<br>32.63<br>7.83               | 18.43         |
| 14  | Olds          | 1907<br>1908<br>1909<br>1910<br>1911 | 514<br>162                   | 22<br>10            | 24.59<br>16.20                       | 20.39         |
| 15  | Stettler      | 1907<br>1908<br>1909<br>1910<br>1911 | 1,082<br>163<br>761<br>1,992 | 45<br>3<br>39<br>   | 24.04<br>54.32<br>19.33<br><br>28.46 | 31.23         |
| 16  | Sedgewick     | 1907<br>1908<br>1909<br>1910<br>1911 | 342<br>356<br>738<br>26      | 17<br>32<br>28<br>2 | 20.11<br>11.12<br>26.35<br>13.00     | 17.64         |
| 17  | Innisfail     | 1907<br>1908<br>1909<br>1910<br>1911 |                              |                     |                                      |               |
| 18  | Red Deer      | 1907<br>1908<br>1909<br>1910<br>1911 |                              |                     |                                      |               |
| 19  | Lacombe       | 1907<br>1908<br>1909<br>1910<br>1911 |                              |                     |                                      |               |
| 20  | Ponoka        | 1907<br>1908<br>1909<br>1910<br>1911 |                              |                     |                                      |               |

# Annual Report, 1911

Speltz.—Continued.

| No. | CROP DISTRICT | Year                                 | Bushels           | Acreage        | Yield<br>per<br>acre    | A verage<br>yield |
|-----|---------------|--------------------------------------|-------------------|----------------|-------------------------|-------------------|
| 21  | Wetaskiwin    | 1907<br>1908<br>1909<br>1910<br>1911 | 100 96            | 2<br>2<br>     | 50.00<br>48.00          | 49.00             |
| 22  | Leduc         | 1907<br>1908<br>1909<br>1910<br>1911 | 224<br>55         | 7 3            | 32.00<br>18.33          | 25.16             |
| 23  | Camrose       | 1907<br>1908<br>1909<br>1910<br>1911 | 300               | 16<br><br>45   | 18.75<br><br>21.96      | 20.35             |
| 24  | Alexandra     | 1907<br>1908<br>1909<br>1910<br>1911 | 127               | 5              | 25.40                   | 25.40             |
| 25  | Vermilion     | 1907<br>1908<br>1909<br>1910<br>1911 | 129<br>150        | 7 7            | 18.42<br>21.42          | 19.92             |
| 26  | Vegreville    | 1907<br>1908<br>1909<br>1910<br>1911 | 284<br>360<br>542 | 15<br>10<br>30 | 18.92<br>36.00<br>18.06 | 24.32             |
| 27  | Stratheona    | 1907<br>1908<br>1909<br>1910<br>1911 |                   |                |                         |                   |
| 28  | Stony Plain   | 1907<br>1908<br>1909<br>1910<br>1911 |                   |                |                         |                   |
| 29  | Lac Ste. Anne | 1907<br>1908<br>1909<br>1910<br>1911 | 26                | 1              | 26.00                   | 26.00             |
| 30  | Pembina       | 1907<br>1908<br>1909<br>1910<br>1911 |                   |                |                         |                   |

Speltz.—Continued.

| No. | CROP DISTRICT | Year                                 | Bushels | Acreage | Yield<br>per<br>acre | Average yield |
|-----|---------------|--------------------------------------|---------|---------|----------------------|---------------|
| 31  | St. Albert    | 1907<br>1908<br>1909<br>1910<br>1911 |         |         |                      |               |
| 32  | Sturgeon      | 1907<br>1908<br>1909<br>1910<br>1911 |         |         |                      |               |
| 3   | Victoria      | 1907<br>1908<br>1909<br>1910<br>1911 | 170     | 7       | 24.29                | 24.29         |
| 4   | Pakan         | 1907<br>1908<br>1909<br>1910<br>1911 | 15      | 1       | 15.00                | 15.00         |
| 5   | Athabasca     | 1907<br>1908<br>1909<br>1910<br>1911 |         |         |                      |               |

SUMMARY OF THE ACREAGE AND YIELDS OF THE LEADING GRAINS DURING THE LAST TWELVE YEARS.

|                 | YEAR   | Crop area in acres   | Total yields in bushels   | Average<br>yield<br>per acre  | Average yield |
|-----------------|--|--|---|---|---------------|
| Spring Wheat    | 1911<br>1910<br>1909<br>1908<br>1907<br>1906<br>1905<br>1904<br>1903<br>1902<br>1901<br>1900 | 757,493<br>450,493<br>324,472<br>212,677<br>123,935<br>115,502<br>75,353<br>47,411<br>59,951<br>45,064<br>34,890<br>30,361 | 15,730,238<br>5,697,956<br>6,155,455<br>4,001,504<br>2,261,610<br>2,664,661<br>1,617,505<br>786,075<br>1,118,180<br>850,122<br>857,714<br>583,806 | 20.75<br>12.85<br>18.97<br>18.81<br>18.25<br>23.07<br>21.46<br>16.58<br>18.65<br>18.86<br>24.58 | 19.52         |
| Winter<br>Wheat | 1911<br>1910<br>1909<br>1908<br>1907<br>1906<br>1905<br>1904<br>1903                         | 182,671<br>142,467<br>102,167<br>104,956<br>83,965<br>61,625<br>32,174<br>8,296<br>3,440                                   | 4,336,749<br>2,206,564<br>2,312,344<br>3,093,422<br>1,932,925<br>1,301,359<br>689,019<br>152,125<br>82,418  | 23.74<br>15.48<br>22.63<br>29.47<br>20.66<br>21.11<br>21.41<br>18.33<br>23.95                   | 21.86         |

SUMMARY OF THE ACREAGE AND YIELDS OF THE LEADING GRAINS DURING THE LAST TWELVE YEARS.—Continued.

|        | YEAR   | Crop area in acres  | Total yields in bushels   | Average<br>yield<br>per acre   | Average yield |
|--------|--|---|---|--|---------------|
| Oats   | 1911<br>1910<br>1909<br>1908<br>1907<br>1906<br>1905<br>1904<br>1903<br>1902<br>1901         | 669,827<br>492,589<br>693,901<br>431,145<br>307,093<br>335,728<br>242,801<br>180,698<br>162,314<br>118,997<br>104,533<br>77,616 | 27,604,993<br>12,158,530<br>24,819,661<br>15,922,974<br>9,247,914<br>13,136,913<br>9,514,180<br>5,609,496<br>5,187,511<br>3,776,976<br>4,253,284<br>2,625,581 | 41. 21<br>24. 68<br>35. 76<br>36. 93<br>30. 11<br>39. 12<br>39. 18<br>31. 04<br>31. 95<br>31. 74<br>40. 68<br>33. 82 | 34.68         |
| Barley | 1911<br>1910<br>1909<br>1908<br>1907<br>1906<br>1905<br>1904<br>1903<br>1902<br>1901<br>1900 | 103,302<br>90,901<br>107,764<br>77,876<br>54,698<br>73,588<br>64,830<br>61,549<br>42,219<br>22,201<br>13,483<br>9,256           | 3,037,584<br>1,889,509<br>3,310,332<br>1,949,164<br>1,082,460<br>2,157,957<br>1,773,914<br>1,608,241<br>1,077,274<br>473,108<br>442,381<br>234,971            | 29.41<br>20.79<br>30.72<br>25.03<br>19.78<br>29.32<br>27.36<br>26.12<br>25.51<br>21.31<br>32.81<br>25.37             | 26.12         |
| Flax   | 1911<br>1910<br>1909<br>1908<br>1907<br>1906<br>1905<br>1904<br>1903<br>1902                 | 16,549<br>15,271<br>12,479<br>9,262<br>6,488<br>3,647<br>561<br>367<br>830<br>373   | 153,908<br>46,155<br>131,531<br>73,762<br>50,002<br>38,491<br>8,337<br>5,003<br>7,753<br>4,476  | 9.30<br>3.02<br>10.54<br>7.96<br>7.87<br>10.65<br>14.34<br>13.63<br>9.34<br>12.00                                    | 9.86          |
| Rye    | 1911<br>1910<br>1909<br>1908<br>1907<br>1906   | 2,190<br>1,522<br>1,592<br>1,250<br>591<br>1,139  | 38,722<br>28,306<br>25,801<br>22,625<br>10,595<br>22,462  | 17.68<br>18.60<br>16.20<br>18.10<br>17.91<br>19.70   | 18.03         |
| Speltz | 1911<br>1910<br>1909<br>1908<br>1907<br>1906<br>1905<br>1904                                 | 203<br>18<br>269<br>484<br>151<br>385<br>178  | 5,337<br>164<br>6,369<br>9,697<br>3,346<br>11,423<br>4,419<br>2,426   | 26.29<br>9.11<br>23.67<br>20.03<br>22.15<br>29.67<br>24.82<br>21.66  | 22.17.        |

|      | Total crop area | Total yield<br>of grain |
|------|-----------------|-------------------------|
| 1911 | 1.732.648       | 50,907,531              |
| 1910 | 1 103 261       | 22,027,184              |
| 1909 | . 1 242 644     | 36,761,493              |
| 1908 | 837 641         | 25,073,147              |
| 1907 | 576.821         | 14,588,852              |
| 1906 | 591.614         |                         |
| 1905 | 415 017         | 19,333,266              |
| 1004 | 415,917         | 13,607,374              |
| 1904 | 298,433         | 8,163,366               |

### III—VITAL STATISTICS.

The constant stream of newcomers to the province, many of whom do not speak the English language, makes it very difficult indeed to obtain as full and complete returns of births, marriages and deaths as could be desired. The department has posters in four different languages for distribution, giving a synopsis of the Act, which are sent to all newly appointed registrars, but it takes time for this knowledge to filter through the widely scattered, newly made settlements. Postmasters have been appointed as registrars wherever possible and gradually people will learn what is required of them. The new settler, however, is not the only offender. Many of the physicians fail to report events as quickly as they should, and frequently not at all. In the case of births, although the Act calls for registration within one month, yet it allows names to be entered for a period of two years. All this tends to delay a final statement of the total number of births for any year.

New Appointments.—During the year 54 new appointments of

New Appointments.—During the year 54 new appointments of registrars were made; 20 resignations accepted and the vacancies filled; and seven appointments were withdrawn where post offices were discontinued. There were at the end of the year 705 registrars

on the roll.

Certified Abstracts, Searches of Record, etc.—During the year 285 applications were received for certified abstracts, 38 searches of the records made upon request, and 183 authorities to register events were granted.

#### BIRTHS.

The total number of births recorded during the year 1911 was 8,813, only a slight increase over that of 1910. The males numbered 4,623 and the females 4,190.

### MARRIAGES.

The registrations of marriages received during the year were 3,630 as against 3,086 for 1910. The mean marriage age for males was 28.46 and for females 23.84. The records show that 13 brides were married under the age of 16, while 17 bridegrooms and four brides were married at the age of 60 and over.

#### DEATHS.

The total number of death registrations received for the year 1911 was 3618. Of these 2,092 were males and 1,526 females. A serious aspect is the fact that 651 males and 534 females, or a total of 1,185 deaths are recorded under one year of age. This means that of the 8,813 births, 1,185 die under 12 months of age. Put in another way this means an infant mortality of 12.49 per cent.

Total Registrations received of all Births, Marriages and Deaths for each respective month of the year 1911.

| MONTH     | BIRTHS | MARRIAGES | DEATHS |
|-----------|--------|-----------|--------|
| January   | 789    | 217       | 382    |
| February  | 618    | 289       | 305    |
| March     | 671    | 215       | 290    |
| April     | 616    | 296       | 323    |
| May       | 734    | 242       | 307    |
| June ,    | 698    | 384       | 262    |
| July      | 744    | 289       | 313    |
| August    | 770    | 306       | 307    |
| September | 905    | 309       | 330    |
| October   | 1,029  | 357       | 282    |
| November  | 760    | 355       | 261    |
| December  | 479    | 371       | 256    |
| Totals    | 8.813  | 3.630     | 3.618  |

VITAL STATISTICS RETURNS, 1905 TO 1911 (INCLUSIVE).

| YEAR  | BIRTHS  | MARRIAGES   | DEATHS '  | TOTAL   |
|-------|---|---|---|---|
| 1905  | 421<br>3,033<br>4,732<br>5,973<br>6,897<br>8,231<br>8,813 | 187<br>927<br>1,907<br>2,032<br>2,384<br>3,086<br>3,630 | 114<br>1,091<br>1,578<br>2,188<br>2,662<br>3,526<br>3,618 | 722<br>5,051<br>8,217<br>10,193<br>11,943<br>14,843<br>16,061 |
| Total | 38,100  | 14,153  | 14,777  | 67,030  |

CERTIFIED EXTRACTS, SEARCHES AND AUTHORITIES TO REGISTER, 1911:

285 Certified Extracts. 183 Authorities to Register. 38 Searches of Records.

Registrations received from Registrars throughout the respective Electoral Districts, 1911.

### Births by Electoral Districts.

| ELECTORAL DISTRICT | MALE       | FEMALE | TOTAL |
|--------------------|------------|--------|-------|
| Alexandra          | 97         | 92     | 189   |
| Athabasca          | <b>4</b> 9 | 34     | 83    |
| Camrose            | 130        | 129    | 259   |
| Cardston           | 72         | 73     | 145   |
| Claresholm         | 84         | 81     | 165   |
| Cochrane           | . 35       | 36     | 71    |
| Didsbury           | 91         | 95     | 186   |
| Gleichen           | 72         | 73     | 145   |
| High River         | 52         | 47     | 99    |
| Innisfail          | 47         | 45     | 92    |
| Lacombe            | . 25       | 35     | 60    |
| Lac Ste. Anne      | 42         | 33     | 75    |
| Leduc              | 83         | 83     | 166   |
| Lethbridge         | 190        | . 187  | 377   |
| Macleod            | 42         | 35     | 77    |
| Medicine Hat       | 272        | 227    | 499   |
| Nanton             | 51         | 59     | 110   |
| Okotoks            | 16         | 17     | - 33  |
| Olds               | 92         | 65     | 157   |
| Pakan              | 215        | 176    | 391   |
| Peace River        | 4          | 1      | . 5   |
| Pembina            | 25         | 31     | 56    |
| Pincher Creek.     | 39         | 30     | 69    |
| Ponoka             | 37         | 15     | 52    |
| Red Deer           | 52         | 59     | 111   |
| Rocky Mountain     | 96         | 91     | 187   |
| Sedgewick          | 179        | 174    | 353   |
| St. Albert         | 107        | 83     | 190   |
| Stettler           | 193        | 182    | 375   |
| Stony Plain        | 45         | 47     | 92    |
| Strathcona         | 126        | 116    | 242   |
| Sturgeon           | 55         | 45     | - 100 |
| Vermilion          | 118        | 102    | 220   |
| Vegreville         | 383        | 342    | 725   |
| Victoria           | 112        | 117    | 229   |
| Wetaskiwin         | 61         | 55     | 116   |
| Calgary City       | 716        | 585    | 1,301 |
| Edmonton City.     | 351        | 367    | 718   |
| Lethbridge City.   | 167        | 126    | 293   |
| City               | 101        | 120    | 290   |
| Totals             | 4.623      | 4,190  | 8.813 |

REGISTRATIONS received from Registrars throughout the respective Electoral Districts, 1911.

|  | 1  |   |  |   |   |  |  |   |  |  |   |  |  |
|--|--|---|--|---|---|--|--|---|--|--|---|--|--|
|  |  |   |  |   |   |  | MON  | VTHS  |  |  |   |  |  |
| BIRTHS BY ELECTORAL DISTRICTS  | January  | February  | March  | April   | May   | June   | July .   | August  | September  | October  | November  | December   | Total  |
| Alexandra Athabasca Camrose Cardston Claresholm Cochrane Didsbury Gleichen High River Innisfail Lacombe Lac, Ste. Anne Leduc Lethbridge Macleod Medicine Hat Nanton Okotoks Olds Pakan Peace River Pembina Ponoka Pincher Creek Red Deer Rocky Mountain Sedgewick St. Albert Stettler Stony Plain Strathcona Sturgeon Vermilion Vegreville Victoria Wetaskiwin Calgary City Lethbridge City  Total | 166 77 24 111 200 22 177 155 99 111 18 8 12 12 266 37 66 16 37 7 13 38 7 12 10 2 6 6 6 33 12 10 2 5 5 6 33 12 10 2 7 10 2 7 10 10 10 10 10 10 10 10 10 10 10 10 10 | 100 77 88 77 220 188 211 9 4 4 5 5 60 100 100 8 8 63 37 14 14 | 6 133 3 6 6 6 133 4 4 103 2 2 12 2 17 7 7 5 2 8 2 7 7 7 11 1 1 9 5 6 6 1 2 6 6 1 2 6 6 1 1 2 6 6 1 1 2 6 6 1 1 2 6 6 1 1 1 1 | 9 100 188 177 9 5 171 164 4 6 6 133 255 7 7 29 21 26 5 11 6 3 1 1 6 3 1 1 6 1 6 1 6 1 6 1 6 1 | 8 77 222 8 100 9 9 18 12 100 7 7 4 4 4 6 6 25 5 2 18 31 | 13<br>5<br>18<br>8<br>14<br>13<br>6<br>6<br>10<br>13<br>48<br>5<br>27<br><br>9<br>9<br>8<br>6<br>19<br>38<br>9<br>11<br>13<br>8<br>9<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | 9 9 9 8 8 8 15 6 6 35 7 7 40 3 3 2 2 1 5 3 2 1 3 3 1 4 4 6 6 5 6 6 1 1 6 4 4 1 4 8 8 1 1 2 6 2 2 9 | 4 53 13 2 9 49 49 3 2 10 15 3 43 21 36 4 45 5 152 38 24 | 244<br>517<br>244<br>255<br>66 12<br>66 16<br>13<br>3 15<br>40<br>1 18<br>8 55<br>2 28<br>10<br>25<br>26<br>42<br>21<br>21<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31 | 333 66 399 199 188 144 222 199 100 4 4 11 15 500 3 3 2 2 5 5 31 11 11 12 2 7 6 4 2 2 9 9 194 4 8 8 8 3 0 | 6 200 144 100 6 133 6 6 144 277 2 400 6 6 6 100 311 33 8 8 30 555 222 8 165 64 19 | 100 3 111 6 8 8 6 6 6 6 2 2 16 6 18 8 27 7 15 6 25 77 13 38 13 11 38 8 13 37 10 14 7 8 | 189 83 259 145 165 71 186 145 99 92 60 07 75 166 37 77 500 110 33 157 391 55 56 69 111 187 353 190 220 725 229 116 1,301 718 293 |
| 10041  | 109  | 019   | 071  | 010   | 734   | 098  | 1744   | 1770  | 905  | 1,029  | 760   | 479  | 8.813  |

Marriages by Denominations and Ages.—Electoral Districts, 1911.

|  | •                                     | 61           | 122   | $\infty \infty$                                  | 16       | 99       | 132  | 36           | 72    | 424              | 84           |
|--|---------------------------------------|--------------|-------|--|----------|----------|--|--------------|-------|------------------|--------------|
|  | Over 60                               | 1 : :        | 1:    | 1 : :  | 1:       | : :      | 1  | <del> </del> | 1-    | 1::              | -            |
|  | 09 of 15                              | Ī            |       | T  |          | T        | T  | 1 : :        |       | 1 : :            |              |
|  | 0g of 94                              | T- :         | 1     | Ì  | T :      | 1 : :    | T  |              | 1     | H :              | <del> </del> |
| ES   | 24 of 14                              | 12 :         | 101   | Ī : :  |          | 1 co     | 4  | 1 = :        | 1-    | cc :             | - 60         |
| AGES                                       | 36 to 40                              | 000          | 100   | T  | T        | 1 7      | 4  | 10.          | 2     | 1201             | 1            |
|  | 38 of 18                              | 1987         | 100   | T = :  | -        | 0001     | 101  | 1-0          | 4     | 000              | T            |
|  | 26 to 30                              | 1201         | 32    | H  | T        | 30       | 37   | 0.4          | 13    | 121              | 16           |
|  | 21 to 25                              | 22           | 17    | 140  | 10       | 282      | 184  | 122          | 30    | 11               | 27           |
|  | 02 of 01                              | 122          | 23    | 100  | 14       | 787      | 29   | <u> </u>     | 20    | 17               | 100          |
|  | Under 16                              | 1 :-         | 1-    |  | 1:       |          | <del> </del>                                 | 1 : :        |       | 1 :-             | -            |
|  |                                       |              |       |  |          | i        |  |              |       |                  | -            |
|  | Electoral<br>Districts                | Alexandra—   |       | Athabasca—                                       |          | Camrose— |  | Cardston—    |       | Claresholm—      |              |
|  |                                       | 69           | 122   | ∞ ∞  | 16       | 99       | 132  | 36           | 72    | 42               | 84           |
| 日  | Not Stated                            | f p.me :     |       |  | :        | 000      | 50   | 10,00        | 00    | 000              | 5            |
| RID  | Others                                | 1:5          |       |  | <u> </u> | 12       | 60   | 1 7 7        | (00)  | 000              | 10           |
| I OF                                       | Gr. Ortho. & Ind.                     | ::           |       | : :  |          |          | <u>.                                    </u> |              | 1     |                  | 1            |
| A An                                       | Congregationalist                     | -:           | -     | : :  |          | -:       | -  | n :          | 20    | -                | -            |
| ROOM                                       | Ymrh noiteviel                        | 1 : :        |       |  |          | : :      |  |              | ] :   |                  | 1            |
| 5  | Mennonite                             |              |       |  | :        | ::       | :  |              |       |                  | -            |
| ) o  | Evangelical R'f'd                     |              | :     | <del>                                     </del> | :        | : :      | 1 :  | :::          | : :   | -                | 1            |
| rion                                       | ansivatoM                             | : :          | :     | : :  | :        | ::       | :  | 1 : :        | 1:    | : :              |              |
| INA  | Latter Day Saints                     |              |       |  | :        | : :      |  | 16           | 35    | 0101             | 4            |
| NOW  | Greek Catholic                        | ::           | :     | : :  | :        | : :      | :  |              |       |                  | -            |
| DE   | Baptist                               | 204          | 0     | : : :  | :        | 0101     | 4  |              |       |                  | 2            |
| ous  | Lutheran                              | 6            | 1     |  | :        | 21 25    | 46   | 12           | 00    | 10               | 17           |
| RELIGIOUS DENOMINATIONS OF GROOM AND BRIDE | Roman Catholic                        | 1-00         | 15    | 99   | 12       | 13       | 24   | 400          | 7     | . 23             | 2            |
| RE   | A nglican                             | 11           | 26    | HH   | 23       | 44       | 00   | ବର ବଦ        | 9     | w <del>4</del> 1 | 7            |
|  | 1 teibodist                           | 18           | 37    |  | H        | 12       | 23   | 1 2          | ನಾ    | 10               | 19           |
|  | Presbyterian                          | m ∞          | 21    | - :  | -        | 08       | 18   | — m          | 4     | 11               | 20           |
|  | S S S S S S S S S S S S S S S S S S S | MalesFemales | Total | Males  | Total    | Males    | Total  | Males        | Total | MalesFemales     | Total        |

| 24             | 48    | \$51      | 102   | 30 00<br>00 00          | 92       | 27               | 54    | 36               | 72    | 52            | 104   | 12             | 24    | 36             | 72    |
|----------------|-------|-----------|-------|-------------------------|----------|------------------|-------|------------------|-------|---------------|-------|----------------|-------|----------------|-------|
| : :            | 1 :   | CI FI     | 0.5   |                         | :        | : :              | ;     | 1 : :            | . :   | : :           | 1 .   | ·<br>  : :     |       | :              | -     |
| <del>-</del> : | -     | -         | -     | : :                     |          | : :              |       | - :              | -     | 62 :          | 27    | : :            |       | : .            |       |
| ::             |       | - :       |       |                         |          | : :              | :     | : :              |       | : :           | :     | : : :          |       |                | - 67  |
| ::             | :     | ണ :       | ಲಾ    |                         | 67       |                  | :     | 00               | 4     |               | 2     | : :            |       | : :            | -     |
| 20             | 4     |           | 00    | 4-                      | 70       | w :              | ಣ     | C7 :             | 23    | 900           | 0     | 21             | 30    | <del>-</del> : | Ė     |
| 41             | 5     | 2         | 133   | r :                     | 7        | 70 H             | 9     | 2001             | 5     | 0,10          | 14    | 12             | ಣ     | 5              | 20    |
| <u>r-4</u>     | =     | 19        | 233   | 17                      | 27       | 00 co            | Ξ     | 16               | 21    | 15            | 19    | 2 :            | 2     | 6-1            | 10    |
| 10             | 16    | 13        | 33    | 15 co                   | 23       |                  | 22    | 111              | 27    | 18            | 38    | 900            | 6     | 16             | 30    |
| :=             | 11    | 1         | 17    | -=                      | 12       | .12              | 12    | 77               | 12    |               | 19    | - 70           | 9     | 100            | 22    |
| :::            |       | : . :     | :     | : :                     |          |                  |       | : :              |       | :             | 1     | :              | -     | :              |       |
| Cochrane—      |       | Didsbury— |       | Gleichen—               |          | High River—      |       | Innisfail—       |       | Lacombe—      |       | Lac Ste. Anne— |       | Leduc—         |       |
| 24<br>24       | 48    | 51        | 102   | 00 00<br>00 00<br>00 00 | 92       | 27               | 54    | 36               | 72    | 52            | 104   | 12             | 24    | 36             | 72    |
| <del></del>    | -     | 121       | 60    | · ·                     | 00       | 12               | (m)   | :::              | 1     | 44            | 00    | : :            | 1:    | 1              | 3     |
| : =            | 1     | 2100      | 5     | 100                     | 4        |                  | 2     | : 2              | 2     | 00            | 1     | 1              | :     | . 64           | 2     |
|                | 1:    | : :       | 1     |                         | 1;       | : :              | · · · |                  | 1 :   | 1 : :         | 1     |                | :     | : :            |       |
| : :            | 1:    |           | 2     |                         |          |                  |       | : :              |       | ; : :         | ] ;   |                |       |                |       |
| <u>: :</u>     | 1:    |           | :     | 1 3 1                   |          | : :              | :     | : :              | :     | ļ <u>:</u> ;, |       |                | 1     | : :            |       |
| -              | -     | 5         | =     | : :                     | :        |                  | :     |                  | 2     | : :           | 1:    |                | :     |                |       |
| : :            | ! :   |           | -:    | : :                     | :        | : :              | :     | : :              | 1:    | : :           | :     | : :            | :     | : :,           |       |
| <u>.</u> :     | :     |           | :     | 1 : :                   | 1:       | : :              | :     | :::              | 1     | 1 : :         | 1:    |                | :     | : :            |       |
|                | 1:    | · : :     | 1 :   | 1 : :                   | :        | 00               | 4     | : :              | 1:    | : :           | 1     |                | :.    |                | 2     |
|                | 1 :   |           | 1 60  | 1 - 0                   | 70       |                  | 1 67  | 104              | 9     |               |       |                | 2     | 2000           | 000   |
| ==             | 2 2   | 21 =      | 1 00  | 1 4 4                   | 00       |                  |       | 104              | 6     | 1014          | 1.9   |                | 37    | 911            | 17    |
| 127            | 1 00  | 99        | 12    | 1 - 00                  | 10       |                  | :     | 1 4 00           | 1     | 10.0          | 30    | 100            | 00    | 0 0 1          | 12 1  |
| 67             | 1 22  | 1 9 0     | 2     | 01                      | 18       | 9                | 12    | 100              | 16    | 114           | 25    | 00             | 1 2   | 50             | 000   |
| F-10           | 12 1  | 110       | 21 1  | 1507                    | 12 1     | O 00             | 17    | 101-             | 12    | 151           | 30 2  | 1              | 2     | 707            | 12    |
| 10 00          | 13    | 121       | 21 2  | 00 10.                  | 13       | 9 7              | 13    | 1 ~ ∞            | 15    | 13            | 22    |                |       | 10 to          | 000   |
| Males          | Total | Males     | Total | MalesFemales            | <u> </u> | Males<br>Females | Total | Males<br>Females | Total | Males         | Total | Males          | Total | Males          | Total |

Marriages by Denominations and Ages.—Electoral Districts, 1911.—Continued,

|  | 1                      | 73               | 146   | 355              | 70    | 209           | 418   | 300              | 09    | 101          | 20         |
|--|------------------------|------------------|-------|------------------|-------|---------------|-------|------------------|-------|--------------|------------|
|  | 09 тэчО                |                  | +:    | 1 :              | 1 :   | 101-          | 1 00  | 1::              |       | 1 : :        | +:         |
|  | 09 of 15               |                  |       | 1                | :     | 1-0           | 1 00  | 101-             | 00    | 1::          | +:         |
|  | 08 of 94               | 1 ::             | 1:    | 100 -            | 14    | 144           | 00    | 1                | 12    | 1::          | +:         |
| N N  | 64 of 14               |                  | 1 .   | 1::              | + :   | 1000          | 50    | 1- :             | 1     | 1::          | +:         |
| AGES   | 0 to 1 98              |                  | 1-    | 144              | 1 00  | 100           | 18    | 101              | 60    |              | 12         |
|  | 35 of 18               | 10001            | 10    | 1000             | T     | 13            | 42    | 103 :            | 107   | 101:         | 12         |
|  | 08 to 30               | 33               | 46    | 13               | 22    | 71            | 108   | 1000             | 10    | 10           | 1-         |
|  | 21 to 25               | 30               | 57    | 12               | 1 20  | 75            | 62    | 12               | 18    | 1 - 2        | 19         |
|  | 16 to 20               | 31               | 32    | 1 9              | 1     | 111           | 1 39  | 1001             | 21    | :00          | 100        |
|  | Under 16               | 1 : :            | 1:    | 1::              | 1:    | 1 :           |       | 1 : :            |       | 1::          | <u>-</u> : |
|  |                        | 1                |       | 1                |       |               |       | 1                |       | !            | <u> </u>   |
| The state of the s | Electoral<br>Districts | ridge            |       | pa               |       | Medicine Hat- |       |                  |       | ks-          |            |
|  | ELI                    | Lethbridge       |       | Macleod          |       | Medic         |       | Nanton           |       | Okotoks      |            |
|  |                        | 73               | 146   | 35               | 70    | 209           | 418   | 30               | 09    | 10           | 20         |
| B  | Not Stated             | 1301             | 7     | 1 : :            | Ī     | 00 -          | 14    | 9 4              | 10    |              |            |
| RELIGIOUS DENOMINATIONS OF GROOM AND BRIDE   | Others                 | ಾ ಇ              | 9     | -                | -     | 15.0          | 23    | ::               |       | :            |            |
| [ QX   | Gr. Ortho. & Ind.      |                  | 2     |                  | 1. :  |               | 10    |                  |       | : :          |            |
| M AJ   | dailanoitagargao()     | 1                | : :   | 1 : :            | 1     | 00            | 4     | : "              | , .   | : 1.         |            |
| R001   | Salvation Army         |                  | :     | 1 : :            | :     |               | 2     |                  | . : [ | :            | :          |
| F G  | Mennonite              | : :              |       |                  | 1     |               | 1     | 1                |       | . !          |            |
| 0 .87  | Evangelical R.f'd.     | 1 1              |       | 1 : :            |       | 12.8          | 20    |                  |       | ·. ·         | :          |
| TION   | ansivaroM              | :::              | :     |                  | :     | : -           | -     | : :              | :     |              | -          |
| IINA   | striez Vau Tetter      | 15               | 32    | : : :            |       | 2121          | 4     | 00               | 4     | 1 :          |            |
| NON  | Greek Catholic         | :                | :     | : :              | :     | :             | 1     | :                |       | : 1          |            |
| DE   | Baptist                | 50               | 11    |                  | 2     | 17            | 23    | 0.4              | 9     |              |            |
| rous   | Lutheran               | 12 16            | 28    | : 1              |       | 39            | 1     | 1 .              | .     | i            |            |
| LIG  | Roman Catholic         | 00 10            | 13    | 410              | 6     | 32            | 58    | . : [            | i     |              | 2          |
| RE   | Anglican               | 0 20             | =     | 100              | 20    | 25            | 62    | - G2             | 4     | 40           | 19         |
|  | Methodist              | 10               | 16    | 000              | 18    | 2 23          | 62    | - 1 x            | 15    | 00           | 4          |
|  | Presbyterian           | <u>∞0</u>        | 17    | 11               | 20    | 46            | 77    | 12               | 21    | c: 4         | 7          |
|  | SBX                    | Males<br>Females | Total | Males<br>Females | Total | Males         | Total | Males<br>Females | Total | MalesFemales | Total      |

| 37            | 74    | 666      | 198   | 1 : :        |       | 6        | 18    | 21 21          | 42    | 35           | 70    | 52           | 104   | 74              | 148   |
|---------------|-------|----------|-------|--------------|-------|----------|-------|----------------|-------|--------------|-------|--------------|-------|-----------------|-------|
| : :           | 1 :   | : :      | 1     | 1 : :        | 1:    | 1 : :    | 1 :   |                | 1 :   | 1 : :        | 1:    | 1 : :        | 1:    | 1 : :           | 1     |
| : :           | 1     | 4 :      | 4     |              | 1:    | -        | -     |                | 1:    | 121          | 00    |              | 1 :   | :               | -     |
| 27 :          | 2     | : -      | -     | 1 : :        | 1 :   |          | 107   | 1::            | :     | ::           | 1:    | -:           | H     | :H              | T     |
| ::            | 1:    | 200      | 4     |              | 1 :   | 1::      | 1:    | 1::            |       | :            | H     | 123 :        | 2     | NH.             | 00    |
| :01           | 2     | 2001     | 120   | 1 : :        | :     | H :      | -     | 2 .            | 2     | -            | 12    | 10-          | 9     |                 | 12    |
|               | 1     | 40       | 9     | 1 : :        | :     | 00       | 4     | 6001           | 10    | 10           | 101   | 1 20 00      | 10    | 27.00           | 20    |
| 13            | 19    | 25       | 29    |              | 1:    | 1        |       | 90             | 00    | 12           | - 00  | 181          | 29    | 23              | 39    |
| 15            | 32    | 15       | 63    | : :          |       | 4-       | 10    | - 00 -         | 16    | 000          | 15    | 18           | 39    | 24              | 52    |
| 12:           | 12    | 13       | 000   |              | 1:    | :4       | 4     | 10             | T     | 21           | 21    | 17:          | 17    | 10              | 20    |
|               |       | : 23     | 63    | 1::          | 11.   | ::       | 1:    |                | 1:    | : :          | 1:    |              | 1:    | 1 : :           | 1:    |
| -spio         |       | Pakan-   |       | Peace River— |       | Pembina— |       | Pincher Creek- |       | Ponoka-      |       | Red Deer—    |       | Rocky Mountain- |       |
| 37            | 74    | 66<br>66 | 198   |              |       | 00       | 18    | 21 21          | 42    | 350          | 7.0   | 52           | 104   | 74<br>47        | 148   |
|               | :     | :-       | -     | 1:::         | . :   | ::       | :     | 7 :            | 1     | ಣಣ           | 9     | -:           | -     |                 | 2     |
| 401           | 9     | 100      | 5     | 1 : :        | 1     | ::       | 1     |                | 2     |              | 3     | 01.00        | 1     | : -             |       |
| : :           | :     | 31       | 62    | 1 : :        | 1 :   | : :      |       |                | :     | : :          | :     | -            | 1     | - :             | -     |
|               |       | 1        |       | ::           | :     | :-       | -     | ::             | 1:    | ::           |       | .03          | 2     | :07             | 2     |
| ::            | :     | 1 1      | 1 : : | 1 : :        | 1 :   | ::       | :     | ::             | 1:    | 1::          | :     | ::           | 1:    | 1 : :           | 1:    |
| 20            | 41    | 1 : :    | :     |              | :     |          |       | ::             | 1:    |              | :     |              | :     | 1 : :           | 1     |
|               |       | . : :    | :     |              |       |          | :     | - :            | :     |              | :     |              |       | 1 : :           |       |
| ::            | :     | 17.1     |       | ::           | 1:    | : :      |       | : :            | :     | ::           |       |              |       | : :             |       |
| ==            | 67    |          |       | 1 : :        | :     |          | -     |                | 1     |              | 1     | -            | -     |                 |       |
|               | :     | 19       | 300   |              | :     | : :      |       |                |       |              |       |              |       |                 |       |
| ರಾ ರಾ         | 9     | : :      | :     |              |       |          |       | 0001           | 10    | es —         | 4     | 98           | 6     | 400             | 12    |
| ಯ ಯ           | 9     |          | 23    |              |       |          |       |                |       | 0000         | 14    | 94           | 10    | 49              | 101   |
| ==            | 07    | 35       | 69    |              |       | ന.⊢      | 4     | 49             | 10    | 49           | 10    | ကက           | 9     | 27              | 48    |
| $\frac{1}{2}$ | 19    | 10       | ್ಷಾ   |              |       |          | 2     | ත <u>–</u>     | 4     | 0110         | 1     | 10           | 18    | 17              | 32    |
| 701           | 12    | 30 G     | 17    |              |       | 107      | 3     | 14             | 20    | 11           | 18    | ာတ           | 17    | 00 rO           | 13    |
| 10            | 17    | - :      | -     |              |       | 44       | 00    | -100           | 15    | 00,00        | 00    | 91           | 32    | 12              | 27    |
| Males         | Total | Males    | Total | MaleFemales  | Total | Males    | Total | Males          | Total | MalesFemales | Total | MalesFemales | Total | Males           | Total |

Marriages by Denominations and Ages.—Electoral Districts, 1911.—Continued.

|  |                        | 77         | 154   | 20 cc<br>70 70 | 70    | 177               | 282   | 288            | 56    | 84<br>84<br>84   | 168   |
|--|------------------------|------------|-------|----------------|-------|-------------------|-------|----------------|-------|------------------|-------|
|  | 09 YeV 60              | 1 : :      | 1 :   | 1:             | Ti    | 1 : :             | 1:    | 1 :-           | -     | 1 : :            | Ť:    |
|  | (3 of 13               |            | 2     | 1::            | 1:    |                   | 101   | C1 :           | 2     | 4-1              | 129   |
|  | 03 of 34               |            | 1 :   | 1::            |       | 01                | 150   | : :            | 1 :   | 130              | 14    |
| 20   | 64 of 14               | - :        | -     | 1::            | 1:    | 3 :               | 2     |                | 12    | 1 - 0            | 3     |
| AGES                                       | 36 to 40               | 60, 60     | 9     | m :            | 100   | 000               | 14    | T :            | 1     | 0.0              | T     |
| . `  | 38 of 18               | 12         | 14    | (a) :          | 00    | 17                | 21    | Ç4 :           | 10    | 126              | 100   |
|  | 08 of 98               | 34         | 48    | 1000           | 00    | 57                | 82    | 1-4            | 11    | 133              | 46    |
|  | 21 to 25               | 26         | 50    | 24             | 41    | 52                | 501   | 133            | 19    | 29               | 09    |
|  | 02 of 91               | 33.        | 33    | 15             | 15    | 1 46              | 47    | 15.2           | 17    | 28 00            | 31    |
|  | Under 16               | 1 : :      | :     | : :            | 1     |                   | 1:    | -              | -     |                  |       |
|  | Electoral<br>Dispricts | Sedgewick  |       | St. Albert—    |       | Stettler—         |       | Stony Plain-   |       | Strathcona—      |       |
|  |                        | 77         | 154   | 35             | 70    | 141               | 282   | 28<br>28<br>28 | 56    | 84               | 168   |
| )E   | Not Stated             | 10.10      | 10    |                |       | 100               | 15    |                | 1:    | 470              | 6     |
| Вви  | Others.                | 40         | 9     | 1 : :          |       | 00 co             | E     | 0001           | 5     | 00               | 4     |
| ND J                                       | Gr. Ortho. & Ind.      |            | 2     |                | :     | 1                 | 2     |                |       | : :              |       |
| MAA  | Congregationalist      |            | 2     | 11 : :         | :     | · -               | -     |                |       |                  |       |
| R00  | Salvation Army         |            | 2/    |                | :     | : :               |       | : :            |       |                  | -     |
| E G  | Mennonite              | <b>-</b> : | -     |                | :     |                   | ·     |                |       |                  |       |
| SS O                                       | Evangelical R.f.d.     | · 1-md     | _     |                | -     | : :               |       | ಬಲ             | 9     |                  |       |
| TIOI                                       | ansivatoM              | : :,       |       |                | :     | :                 |       | 1 1            |       | 4.0              | 10    |
| IINA                                       | Latter Day Saints      | : :        |       |                | :     | :-                | -     | : :            |       |                  |       |
| NONE                                       | Greek Catholic         | : :        | :     |                | :     | . :               | :     | : :            |       |                  | 2     |
| Di   | Baptist                | 707        | 12    | : : ;          | :     | 0                 | 14    | 12             | 00    | 55               | 10    |
| RELIGIOUS DENOMINATIONS OF GROOM AND BRIDE | Гитрегап               | 0          | 13    |                | :     | 000               | 37    | 12             | 24    | 132              | 25    |
| BLIG                                       | Roman Catholic         | 00         | 6     | 31             | 63    | 17 20             | 37    | 50.50          | 10    | <u>∞</u> ∞       | 14    |
| R.   | пвэilgnA               | 14         | 29    | : :            | :     | 16                | 33    | 80             | 4     | 41-              | 11    |
|  | Methodist              | 14         | 35    | 00             | 4     | 35                | 5     | €0 <del></del> | 4     | 21 19            | 40    |
|  | Presbyterian           | 21         | 32    | 27             | 50    | 32                | 99    | : :            |       | 202              | 43    |
|  | SBX                    | Males      | Total | Males          | Total | Males<br>Females. | Total | MalesFemales   | Total | Males<br>Females | Total |

| 28<br>28<br>28 | 56    | 76           | 52    | 128          | 256   | 82           | 164   | 67               | 134      | 956<br>956                   | 915     | 552<br>552         | 04          | 203              | 406        |
|----------------|-------|--------------|-------|--------------|-------|--------------|-------|------------------|----------|------------------------------|---------|--------------------|-------------|------------------|------------|
| 3131           |       |              |       | 22           | 2     |              |       |                  |          |                              | -       | 20                 | 1,104       |                  |            |
|                |       | : :          |       |              | 1 :   | 2 :          |       | - :              |          | ∞ :                          | 000     | - :                | Poors,      |                  |            |
| : :            | :     | 2 :          | 2     | 1 : :        | :     | : :          | -     |                  |          | 7                            | =       | ∞ :                | 00          | 2                | ಣ          |
|                | :     |              |       |              | 2     |              | 2     | : :              | :        | 15                           | 18      | 10                 | 151         | : -              | 1          |
|                | 2     | 01.01        | 4     | 1 : :        | :     |              | 2     | <b>-</b> :       |          | 21                           | 34      | 17                 | 26          | 12               | 13         |
|                | 1     | 40           | 9     | 20.01        | 7     | 4 :          | 4     | 9 8              | 6        | 28                           | 87      | 43                 | 67          | 17               | 23         |
| 4-1            | 5     | 21 00        | 5     | 00.03        | 10    | 4 :          | 4     | 7-70             | 12       | 101                          | 9278    | 55                 | 5135        | 20 7 12          | 32         |
| 20             | 11    | 33           | 53    | 32           | 41    | 24           | 31    | 19               | 26       | 290 368<br>400 251           | 690 619 | 169 219<br>194 116 | 3335        | 3 37             | 311(       |
| 11.00          | 19    | 29           | 52    | 72 0         | 87    | 3 41         | 9 52  | 3 30             | 3 52     | 340(                         |         | 7 19               | 2 363       | 3 70<br>62 83    | 65 153 116 |
| 152            | 1 17  | 3 26         | 29    | 10           | 109   | 63           | 69    | 30               | . 33     | . 156                        | . 167   | 2 147 1            | 2 152       | 9                | 9          |
| :              |       | : :          | :     | 1 : .:       | :     | : :          | :     | ::               |          | : :                          | 1 :_    | : .                |             | : :              | <u> </u>   |
| Sturgeon-      |       | Vermilion—   |       | Vegreville—  |       | Victoria—    |       | Wetaskiwin—      |          | Calgary City—                |         | Edmonton City—     |             | Lethbridge City— |            |
| 28             | 56    | 76<br>76     | 152   | 128<br>128   | 256   | 82           | 164   | 67               | 134      | 956<br>956                   | 1,912   | 552<br>552         | 1,104       | 203              | 406        |
| <del></del>    | -     | 4 :          | 4     |              | 101   | 400          | 1     | 44               | 00       | 13                           | 29      | 90                 | $\infty$    | 1202             | 1          |
| ::             | :     | .2           | 2     | 1000         | 00    | 12           | 00    | 00               | 4        | 38                           | 80      | 15                 | 31          | ∞ ∞              | 16         |
| : :            | :     |              | 2     | 1-00         | 15    | 00           | 1.00  | 1 : :            |          |                              |         | 09                 | 13          |                  | 2          |
| : :            | 1:    | : =          | -     | 12000        | 00    |              |       | : :              |          | 12                           | 21      | 4                  | 11          | 2 -              | 00         |
| <del></del>    | -     | ::           | :     | : :          |       | : :          | :     |                  |          | 1-1-                         | 14      | 1000               | 5           | 0100             | 5          |
|                | :     | : :          | :     | 1 : :        | :     | : :          | 1     | - :              |          | : :                          | :       | :-                 | - Second    |                  |            |
| ::             | :     |              | 1     |              | 1:    | 2            | 60    |                  | <u> </u> | 44                           | oc      | : :                | :           |                  |            |
| : :            | 1 :   | : :          |       |              | 1 :   | 00           | 4     | 1 : :            | <u> </u> | :                            | 2 1     |                    |             | 121              | :<br>:     |
| <u>: :</u>     | 1 :   |              |       | 1 : :        | 1:0   |              | :     |                  | 1 :      | 2:                           | 107     | 9 9                | :           | 1-1-             |            |
| : :            | :     | 3 1 6        | 9 1   | 2 39 27      | 4 76  | 1 14         | 1 25  | -100             | 1 :      |                              | 1       | 1                  | 8 12        |                  | 7 14       |
| ::             | 2     | 1000         | 189   | 9            | 1     | 0 0          | 16    |                  | 1 15     | 40 71<br>35 62               | 75 133  | 33 33<br>37 35     | 70 68       | 17 10<br>21 7    | 38 17      |
|                |       | 1            |       |              | 01 6  | 28           | 54    | 5 20             | 8 41     |                              |         | 81 3 92 3          | 1           | 26 1 33 2        | 59 3       |
| 3 19           | 7 39  | 4 19<br>7 22 | 1 41  | 1 48<br>3 51 | 4 99  | 200          | 7     | 1 1 - 00         |          | 88<br>5 110                  | 3 198   | 32 8               | 4 173       | 35 3             | 74 5       |
| 60 co          | 120   | 17 1         | 26 31 | 9            | 13    | 111          | 20    | 141              | 25 1     | 8 4<br>  5 5<br>  5 5        | 2 493   | 89 13 83 12        | 2 25        | 42<br>39<br>39   | 81 7       |
|                | 1     | 12 1         | 22 2  | 10 7         | 171   | 6 1          | 13 2  | 10000            | 16 2     | 268 168 238<br>266 154 255 1 | 534 322 |                    | 286 172 254 | 45 3             | 877        |
| -              | -     |              |       | 1            | -     | }            | 1     |                  | -        | 1 2 2 3                      | 53      | 143                |             |                  |            |
| Males          | Total | Males        | Total | Males        | Total | MalesFemales | Total | Males<br>Females | Total    | MalesFemales                 | Total   | Males<br>Females   | Total       | Males            | Total      |

MARRIAGES-Religious Denominations of Contracting Parties.

|             | zmoorgebir4glstoT  | 725<br>6826<br>6831<br>6831<br>1933<br>848<br>848<br>849<br>9<br>9<br>9<br>1130<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60  | 3,630        |
|-------------|--------------------|--|--------------|
|             | Not Stated         | 000000000000000000000000000000000000000  | 98           |
|             | Others             | 147<br>147<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>10  | 128          |
|             | Gr. Ortho. & ind.  | 1 : : 27 : : : : : : : : : : : : : : : :   | 61           |
|             | Congregationalist  | 470041   | 32           |
|             | Salvation Army     | 7  | 15           |
|             | Mennonite          |  | 11           |
| MS          | Evangelical R'f'd. | 2  | 20           |
| BRIDEGROOMS | Moravians          |  | ×            |
| BRID        | Latter Day Saints  |  | 46           |
|             | Greek Catholic     |  | 98           |
|             | Baptist            | 24 2 4 2 5 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7   | 202          |
|             | Lutheran           | 166<br>166<br>17<br>17<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18   | 316          |
|             | Roman Catholic     | 113<br>123<br>123<br>123<br>123<br>124<br>125<br>127<br>127<br>127<br>127<br>127<br>127<br>127<br>127<br>127<br>127  | 583          |
|             | Anglican           | 71<br>453<br>27<br>27<br>16<br>15<br>9   | 655          |
|             | Methodist          | 343<br>343<br>70<br>22<br>22<br>22<br>23<br>11<br>11<br>11<br>11   | 611          |
|             | Presbyterian       | 484<br>80<br>80<br>80<br>95<br>95<br>10<br>11<br>11<br>11<br>11  | 192          |
|             | Total Brides       | 725 Presbyterians. 576 Methodists. 682 Anglicans. 683 Lutherans. 193 Baptists. 84 Greek Catholics. 60 Latter Day Saints. 9 Moravians. 27 Evangelteal Reformed. 9 Mennonite. 18 Salvation Army. 31 Congregationalists 60 Greek Orthodox and Independent. 67 Not Stated.   | 108          |
|             | Clergymen          | 984<br>7792<br>5534<br>6612<br>6612<br>672<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>6734<br>67 | 3,630  3,630 |
|             | gaitsinfO          | orongy, and or   | 3,63         |

# Marriages—Origin of Contracting Parties.

### BRIDEGROOMS

|                                  |  | F                      | nglish<br>Cou                  | Spe                    |                           | 5                             | Others                 |                       |                                  |                  |        |              |          |                                 |  |
|----------------------------------|--|------------------------|--------------------------------|------------------------|---------------------------|-------------------------------|------------------------|-----------------------|----------------------------------|------------------|--------|--------------|----------|---------------------------------|--|
| -                                | BRIDES   | Canada                 | United Kingdom                 | United States          | Other British<br>Colonies | Totals                        | Germany                | Russia                | Austria                          | Norway & Sweden  | France | Italian      | Galician | Others                          | Totals   |
| English<br>Speaking<br>Countries | Canada<br>United Kingdom<br>United States<br>Other British                 | 656<br>158<br>231<br>4 | 777                            | $\frac{90}{400}$       | 3<br>6<br>6<br>2          | 1.031                         | 3 5 8                  | 9<br>1<br>12          | 5                                | 7<br>4<br>22     | 3 5    | 2<br>1       | 1        | 7<br>12<br>8                    | 1,049<br>1,060<br>784<br>11                    |
| H 320                            | Total  | 1,049                  | 1,061                          | 661                    | 17                        | 2,788                         | 16                     | 22                    | 6                                | 33               | 8      | 3            | 1        | 27                              | 2,904  |
| Others                           | Germany Russia. Austria. Norway and Sweden France Italian Galician Others. | 6<br>5<br>4<br>6       | 8<br>3<br>1<br>1<br>4<br><br>5 | 6<br>17<br>7<br>12<br> |                           | 20<br>25<br>12<br>20<br>4<br> | 19<br>6<br>1<br>1<br>1 | 118<br>2<br><br><br>2 | 1<br>4<br>237<br>2<br><br>2<br>1 | 1<br>1<br>72<br> | 8      | i<br>1<br>10 | 79       | 4<br>2<br>2<br>1<br><br>1<br>36 | 48<br>156<br>256<br>95<br>15<br>10<br>86<br>60 |
|                                  | Totals   | 1,078                  | 1,083                          | 708                    | 18                        | 2,887                         | 45                     | 146                   | 253                              | 110              | 19     | 15           | 82       | 73                              | 3,630  |

# DENOMINATIONS OF OFFICIATING CLERGYMEN.

| resbyterian                         |
|-------------------------------------|
| lethodist                           |
| 1'                                  |
| nglican                             |
| Coman Catholic                      |
| utheran                             |
| aptist                              |
| reek Catholic                       |
|                                     |
| atter Day Saintsvangelical Reformed |
| vangelical Reformed                 |
| foravian                            |
| lennonite                           |
|                                     |
| alvation Army                       |
| ongregationalist                    |
| and Cathedra and Indonesia to       |
| reek Orthodox and Independent       |
| reek Orthodox and Independentthers  |
| ot Stated                           |
|                                     |
| 77-4-1                              |

### MEAN MARRIAGE AGE.

| YEAR                         | MALE                             | FEMALE                           | YEAR                         | Male                             | FEMALE                           |
|------------------------------|----------------------------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|
| 1901<br>1902<br>1903<br>1904 | 28.78<br>27.10<br>28.31<br>28.53 | 22.42<br>22.88<br>22.98<br>23.41 | 1907<br>1908<br>1909<br>1910 | 27.45<br>30.23<br>28.94<br>28.72 | 23.98<br>24.19<br>24.22<br>24.18 |
| 1904<br>1905<br>1906         | 28.34<br>28.82                   | 23.41<br>23.06<br>22.59          | 1911                         | 28.46                            | 23.84                            |

### BIRTHS AND RATIO OF BIRTHS TO DEATHS.

| YEAR   | Births of Males<br>to 1,000 births<br>of Females   | Ratio of<br>Births to<br>Deaths              | YEAR                                 | Births of Males<br>to 1,000 births<br>of Females | Ratio of<br>Births to<br>Deaths      |
|--|--|--|--------------------------------------|--|--------------------------------------|
| 1901<br>1902<br>1903<br>1904<br>1905<br>1906 | 1,081<br>1,010<br>1,056<br>1,118<br>1,059<br>1,094 | 3.55<br>2.59<br>2.95<br>3.04<br>3.11<br>2.07 | 1907<br>1908<br>1909<br>1910<br>1911 | 1,075<br>1,077<br>1,086<br>1,065<br>1,103        | 2.96<br>2.73<br>2.59<br>2.69<br>2.43 |

### DEATHS OF INFANTS, UNDER ONE YEAR.

| To 1 000 births 1011 |                 | 134.46     |
|----------------------|-----------------|------------|
|                      |                 | <br>134.40 |
| To 1.000 deaths from | all causes 1911 | 327 52     |

# REGISTRATIONS RECEIVED FROM REGISTRARS THROUGHOUT THE RESPECTIVE ELECTORAL DISTRICTS, 1911.

| DEATHS BY ELECTORAL  | DISTRICT   | s ·   |   |  | r One   |
|--|--|---|---|--|---|
| ELECTORAL DISTRICTS  | Male   | Female  | Total   | Male   | Female  |
| Alexandra Athabasca Camrose Cardston Claresholm Cochrane Didsbury Gleichen High River Innisfail Lacombe Lac Ste. Anne Leduc Lethbridge Macleod Medicine Hat Nanton Okotoks Olds Pakan Peace River Pembina Pincher Creek Ponoka Red Deer Rocky Mountain Sedgewick St. Albert Stettler Story Plain Stratheona Sturgeon | 23<br>32<br>35<br>30<br>19<br>19<br>42<br>28<br>25<br>23<br>24<br>43<br>29<br>68<br>33<br>112<br>25<br>7<br>31<br>75<br>6<br>8<br>20<br>16<br>40<br>50<br>50<br>40<br>70<br>64<br>41 | 18<br>25<br>26<br>24<br>21<br>13<br>43<br>18<br>19<br>13<br>24<br>14<br>11<br>40<br>10<br>9<br>27<br>47<br>2<br>6<br>15<br>17<br>16<br>20<br>37<br>31<br>64<br>13<br>13<br>14<br>15<br>16<br>16<br>17<br>18<br>18<br>18<br>19<br>19<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | 41<br>57<br>61<br>54<br>40<br>32<br>85<br>46<br>44<br>36<br>48<br>57<br>40<br>108<br>45<br>202<br>35<br>16<br>58<br>122<br>8<br>14<br>35<br>33<br>33<br>35<br>16<br>70<br>71<br>134<br>19<br>75<br>23 | 14<br>5<br>6<br>13<br>3<br>15<br>10<br>10<br>20<br>7<br>34<br>8<br>1<br>16<br>23<br>1<br>2<br>6<br>5<br>19<br>20<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18 | 9 4 8 11 10 7 15 7 7 3 5 4 6 16 5 38 2 2 2 6 22 1 5 3 3 10 8 17 18 4 10 3 |
| Vermilion Vegreville Victoria Wetaskiwin Calgary City Edmonton Lethbridge City   | 14<br>91<br>28<br>31<br>440<br>273<br>130  | 22<br>91<br>46<br>27<br>309<br>182<br>82  | $     \begin{array}{r}       36 \\       182 \\       74 \\       58 \\       749 \\       455 \\       212     \end{array} $   | $egin{array}{cccc} 7 & & & & & \\ 31 & & & & & \\ 11 & & & & & \\ 8 & & & & & \\ 140 & & & & & \\ 74 & & & & & \\ 39 & & & & & \\ \end{array}$                               | 8<br>30<br>17<br>4<br>127<br>61<br>18                                     |
| Total  | 2,092  | 1,526   | 3.618   | 651  | 534   |

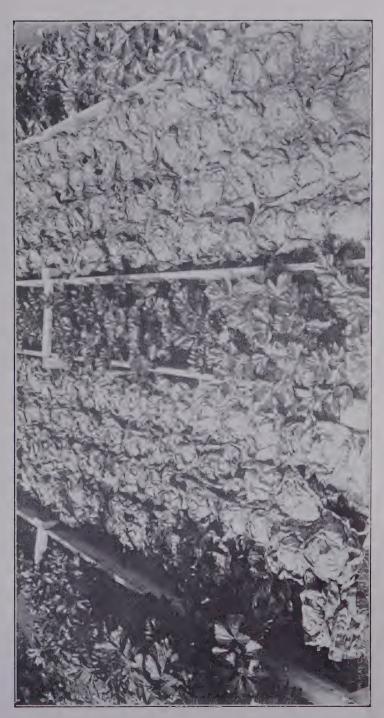
REGISTRATIONS RECEIVED FROM REGISTRARS THROUGHOUT THE RESPECTIVE ELECTORAL DISTRICTS, 1911.

|   | Months   |  |  |   |   |      |   |  |  |  |                           |   |  |
|---|--|--|--|---|---|------|---|--|--|--|---------------------------|---|--|
| DEATHS BY<br>ELECTORAL<br>DISTRICTS   | January  | February   | March  | April ,   | May   | June | July  | August                                   | September  | October  | November                  | December  | Total  |
| Alexandra Athabasca Camrose Cardston Claresholm Cochrane Didsbury Gleichen High River Innistail Lacombe Lac Ste. Anne. Ledue Lethbridge Macleod Medicine Hat Nanton Okotoks Olds Pakan Peace River Pembina Pincher Creek Ponoka Red Deer Rocky Mount'n Sedgewick St. Albert Stettler Stony Plain Stratheona Sturgeon Vermilion Vegreville Victoria Wetaskiwin Calgary City Edmonton Lethbridge City Total | 44<br>33<br>44<br>65<br>55<br>55<br>55<br>65<br>67<br>41<br>33<br>44<br>77<br>58<br>88<br>188<br>22<br>83<br>33<br>144<br>100<br>55<br>64<br>133<br>143<br>144<br>154<br>164<br>165<br>165<br>165<br>165<br>165<br>165<br>165<br>165 | 22<br>44<br>55<br>66<br>55<br>77<br>88<br>22<br>44<br>15<br>22<br>44<br>17<br>22<br>47<br>22<br>47<br>22<br>47<br>22<br>47<br>22<br>47<br>22<br>47<br>22<br>47<br>22<br>47<br>24<br>47<br>25<br>47<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27 | $ \begin{array}{c} 1 \\ 5 \\ 7 \\ 4 \\ 4 \\ 5 \\ 1 \\ 8 \\ 6 \\ 3 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 1 \\ 3 \\ 2 \\ 2 \\ 2 \\ 2 \\ 3 \\ 3 \\ 2 \\ 4 \\ 4 \\ 1 \\ 6 \\ 6 \\ 3 \\ 2 \\ 4 \\ 6 \\ 6 \\ 3 \\ 2 \\ 4 \\ 6 \\ 6 \\ 6 \\ 3 \\ 2 \\ 6 \\ 6 \\ 6 \\ 6 \\ 3 \\ 2 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6$ | 3 3 5 5 3 3 1 1 6 6 2 2 9 9 6 4 4 4 5 5 3 3 1 1 2 5 5 3 6 6 1 6 6 7 7 1 2 2 0 0 2 2 8 4 4 5 5 2 1 1 9 9 6 5 2 2 9 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 66 44 88 33 66 22 77 44 88 44 43 32 22 88 11 244 55 100 11 14 16 100 13 37 44 16 100 13 77 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 4    | $ \begin{array}{c} 4 \\ 77 \\ 96 \\ 61 \\ 33 \\ 51 \\ 18 \\ 33 \\ 11 \\ 25 \\ 88 \\ 31 \\ 12 \\ 25 \\ 88 \\ 27 \\ 24 \\ 42 \\ 25 \\ 42 \\ 24 \\ 24 \\ 24 \\ 24$ | 1 6 4 4 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2   88   1   9   6   6   2   1   3   8   8   5   9   4   4   17   7   6   6   9   5   10   1   10   2   6   6   17   7   7   6   4   4   6   2   3   - 3   3   3   3   3   3   6   6   6   6 | $\begin{array}{c} 4\\ 3\\ 3\\ 2\\ 4\\ 4\\ 4\\ 4\\ 2\\ 3\\ 6\\ 6\\ 3\\ 3\\ 4\\ 4\\ 6\\ 2\\ 1\\ 5\\ 5\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$ | 7 1 1 1 1 4 4 7 7 4 4 1 3 | $\begin{array}{c} 38857713\\ 6632\\ 23\\ \cdot 333544\\ 114\\ \cdot \cdot \cdot 226\\ \cdot \cdot \cdot 2212\\ 28866\\ 618\\ \cdot \cdot \cdot \cdot 221\\ 28866\\ 618\\ \cdot \cdot$ | 41<br>57<br>61<br>54<br>40<br>32<br>85<br>46<br>44<br>48<br>57<br>40<br>108<br>45<br>202<br>35<br>16<br>58<br>12<br>8<br>14<br>35<br>33<br>36<br>70<br>87<br>71<br>134<br>197<br>52<br>33<br>36<br>76<br>76<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>7 |
| Total   | 004  | 5001   | 2501   | 040   | 1007  | 2021 | 910   | 3011                                     | -70701   |  |                           |   | ,  |



|          |  |                | The second second |  | Delta control appropriate ( | the same of the same of |                | N 4- 1 - 2   |                     | 40 PG 100                                 | -               | Ear - 2011 - 2-1 | principal are | 57 0              |     |
|----------|--|----------------|-------------------|--|-----------------------------|-------------------------|----------------|--|---------------------|---|-----------------|------------------|---------------|-------------------|-----|
|          |  |                |                   |  |                             |                         |                | - N. O. F  |                     |   |                 |                  |               |                   |     |
|          | g 7 - 00 - 01                          | H 72           |                   |  |                             |                         |                |  |                     | C = C =                                   | <del></del>     | - <del> </del>   |               | -8-9-5 W          |     |
|          | 50                                     | - 57 51 51     |                   |  |                             |                         |                |  |                     | AND AND AND AND AND                       |                 | 5+1 5            |               | -0 - 1: 1         | -77 |
|          | 54 -1010 + -101                        |                |                   |  |                             |                         | W-11-5         |  |                     |   |                 | - 1- C - W -     |               | MM - M - MM M     |     |
| 101      | 0 -0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |                |                   |  |                             |                         |                | 8-9+ 8   |                     |   |                 | 205 %            |               | 5 49 45 - 5       |     |
|          |  |                |                   |  |                             |                         |                | - N-KN +0 E - N                                      |                     |   |                 |                  |               |                   |     |
|          | - N BUC- N                             |                |                   |  |                             |                         |                | N N-N- N+ NN N                                       |                     |   |                 |                  |               |                   |     |
| 7 17     | 10 1 T                                 |                |                   |  |                             |                         |                | = 8 5- 5 -8 - 8                                      |                     |   |                 |                  |               |                   |     |
|          | 7 - 5-6                                | * <del>*</del> |                   |  |                             |                         |                |  |                     |   |                 |                  |               |                   |     |
|          | 01-1 010 m . vs                        |                |                   |  |                             |                         |                |  |                     |   |                 |                  |               |                   |     |
|          | B HENDER                               |                |                   |  |                             |                         |                |  | - 10.00             | P   |                 | 1000 10          |               |                   |     |
|          |  |                |                   |  |                             |                         |                |  |                     |   |                 |                  |               |                   |     |
|          |  |                |                   |  |                             |                         |                |  |                     |   |                 |                  |               |                   |     |
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TWO BEDS OF ALBERTA LETTUCE, SHOWING PERFECTION OF HEADS.



### IV.-MISCELLANEOUS.

Under this heading is grouped comments on a number of subjects of more or less importance.

### IRRIGATION.

The annual meeting of the Western Canada Irrigation Association was held in August at Calgary. The department was represented by the Honourable Duncan Marshall, Minister of Agriculture, and the Deputy Minister. Quite a few delegates were present from British Columbia, but not as many as could be desired. The meeting was a successful one and some very useful papers read. A trip was made to see the new dam which the Canadian Pacific Railway Company's Irrigation Branch is putting in at Bassano on the Bow River to take water for a large block of land in that district. A visit was also made to the company's Demonstration Farm at Strathmore, where the working of the milking machine was shown by Prof. Elliott, the superintendent. Refreshments were served in the shape of a dish of beautiful strawberries grown on the farm under irrigation. The next convention will be held at Kelowna, B.C.

#### DRY FARMING CONGRESS.

The lessons of 1910 as to the value of careful and intelligent conservation of soil moisture were again enforced in the early part of 1911, so that now many farmers will give greater heed to the methods they follow in cultivating their soil to conserve moisture. Having been so successful the previous year in winning awards at the exposition of dry farmed products in connection with the Dry Farming Congress, the province sent another and better exhibit to the exposition at Colorado Springs in October, 1911, and was fortunate in again securing the first award for the finest display made by any state or province. Besides this numerous individual awards were won for best displays in sections, and in addition twenty-three first prizes and four seconds in vegetables, garden produce and field roots, while in grasses, grains (threshed and in sheaf) and forage plants eighteen first and eleven second awards were secured, a number of them being for best individual displays.

The officials of the department joined hands with the Lethbridge Board of Trade in running a special train to Colorado Springs, where the trophy for the largest delegation was captured, also the holding of the seventh congress in Alberta at Lethbridge. Altogether it was a splendid advertisement for Alberta, and further advantage will be gained by the publicity the province will get during the coming year from the fact that Lethbridge will be the headquarters of the

congress for one whole year.

# CHANGES IN STAFF.

During the year a number of minor changes in the staff were made—clerks resigning and new ones being appointed, as will always be the case. Owing to the starting of a number of demonstration farms, H. A. Craig, B.S.A., Superintendent of Fairs and Institutes, was selected to take charge of them. His place was filled by the transferance of C. E. Lewis, B.A., B.S.A., from the Weed Branch, and Mr. Lewis was succeeded in turn by the appointment of Angus

McKenny, B.S.A., formerly in charge of agricultural extension work

in the county of Essex, Ontario.

In conclusion I wish to state that the thanks of the department are due to the press of the province for their readiness to publish any information furnished, and for their willingness to assist, wherever it lay in their power, the work that the department had in hand. Indeed, it is a great pleasure to state that in whatever direction it looked for assistance in any project it had under way, it always has been accorded hearty support and good wishes.

I have the honour to be, Sir,

Your obedient servant,

GEO. HARCOURT, Deputy Minister of Agriculture.

### 2.—REPORT OF THE DAIRY COMMISSIONER.

Sir,-I have the honour to submit herewith the report of the Dairy Commissioner's Branch for the year ending December 31, 1911, under the following heads, viz.:

I.—General.

II.—List of Creameries operated in 1911.

III.—List of Cheese Factories operated in 1911.

IV.—Government Operation of Creameries.

V.—Cream Grading at Creameries.

VI.—Convention of Creamery Delegates at Innisfail.

VII.—Dairy School at Innisfail. VIII.—Dairy Instruction. IX.—Exhibition Work.

X.—Public Meetings.

XI.—Correspondence. XII.—Acknowledgements.

### I.—GENERAL.

The past season was, on the whole, very favourable for dairy operations in the province. Feed and native pasturage was plentiful for the dairy stock and there was a brisk demand and good market

for all kinds of dairy products.

Several indications point to an early and general expansion of the dairy industry, more particularly perhaps in the districts which are within convenient reach of our larger centres of population. These furnish steadily increasing markets for milk and cream for direct consumption. Many farmers who have in past years patronized local creameries during the summer season are now catering to the milk and cream trade in our cities throughout the year, receiving handsome returns. That branch of the dairy trade is within certain limits more remunerative to the dairyman than is the butter or chee e market; it is also more exacting in the matter of quality and condition of the milk and cream and in the regularity of supply, factors which tend to establish dairy operations upon a more permanent and profitable basis.

### NEW CREAMERIES.

It may be recorded here, also, as a significant fact, that creamery associations were organized and creamery plants erected at the following points in the southern portion of the province during the past season, viz.: Cardston, Magrath, Seven Persons, Claresholm, Macleod, Nanton, High River, Gleichen and Cochrane. This may be taken as an indication that while in nearly all of these sections of the country where wheat is generally regarded as "king" the dairy cow will eventually be acknowledged "queen." There is little doubt that as land values increase the necessity for more diversified farming will make itself more and more felt.

The creamery associations referred to in the foregoing have established well equipped creameries at considerable expense and it is but fair to assume that they have all satisfied themselves that they will have sufficient patronage and cream supply from their own immediate localities to operate their creameries successfully. It should be borne in mind that unless there is a sufficient cream supply available for it a creamery is a poor, if not worthless, asset both to its owners and to its patrons.

The great majority of farmers look upon their local creamery, whether it be operated upon the proprietary or nominally co-operative principle, merely as an alternative market for their milk and cream. If the local creamery is not able at all times to pay them at least as high prices as they are offered elsewhere they are not likely to patronize it regularly.

While it is impossible for anyone to say at the outset just what a local creamery will be able to do for the farmers of the district in which it is located we may take advantage of the experience of creameries that have been operated during the past few years and bring out certain facts and figures to demonstrate that under certain conditions a creamery may pay its patrons a good price for their cream while under different conditions, the market price of butter being the same, it cannot pay nearly as much on account of relatively high running expenses.

There are certain fixed charges in connection with the operation of any manufacturing establishment and so it is with a creamery. The following table A, items 1 to 7 inclusive, shows what are practically fixed charges in the operation of a creamery, and any one who looks into the matter closely will find that under certain conditions these fixed charges may be made comparatively light per unit of production while under different conditions they will of necessity be comparatively heavy:

### TABLE A.

- 1. Labour in creamery.
- 2. Fuel and ice.
- Maintenance of building and plant.
   Management and office.
- 5. Interest and taxes
- 6. Insurance on building, plant and stock.
- 7. Depreciation.8. Supplies and packages.
- 9. Freight and cartage.

The thing to remember is that the total expense, both fixed and pro rata involved in the operation of a creamery must be met from the proceeds of the sales of its finished product. In other words, the operating expenses must be paid before the patrons receive final returns for their cream, and this applies more particularly to creameries conducting their business on the co-operative principle where the patrons receive the total proceeds less the operating expenses and where little or no provision is made for a working capital to take care of a portion of them during the "slack" period of the

season.

The following table B demonstrates what every creamery operator has learned by experience, that a large butter output means a comparatively low, and a small butter output a comparatively high manufacturing expense per unit of production. The figures have been compiled from the manufacturing accounts of twenty-one creameries operated by the department a couple of seasons ago. The creamery accounts are, for this purpose, divided into groups according to the season's butter output as shown in the left hand column. To the right is given the average cost in cents per pound of butter of the services specified under headings 1, 2, 3, 8 and 9 in table A. The expenses under 4, 5, 6 and 7 varied according to local conditions, capital invested, etc., and are not given. The purpose of this table is to give merely the figures for what may be called strictly current manufacturing expenses.

#### TABLE B.

| Up to | 10,000  | tbs.  | · ·  |    |  |  |  |  |  |  |  | <br> |     |  |  |  | 8.75 | cents |
|-------|---------|-------|------|----|--|--|--|--|--|--|--|------|-----|--|--|--|------|-------|
| 10 to | 20,000  | tbs.  |      |    |  |  |  |  |  |  |  |      |     |  |  |  | 4.97 | "     |
| 20 to | 30,000  | lbs.  | <br> |    |  |  |  |  |  |  |  | <br> | ٠,  |  |  |  | 4.17 |       |
| 30 to | 40,000  | lbs.  |      |    |  |  |  |  |  |  |  |      |     |  |  |  | 3.55 |       |
| 40 to | 50,000  | tbs.  |      |    |  |  |  |  |  |  |  |      |     |  |  |  | 3.50 | "     |
| 60 to | 70,000  | tbs.  | <br> | ٠, |  |  |  |  |  |  |  | <br> | an. |  |  |  | 3.21 |       |
| 80 to | 90,000  | lbs.  |      |    |  |  |  |  |  |  |  |      |     |  |  |  | 3.06 |       |
| 90 to | 115,000 | ) lbs | <br> |    |  |  |  |  |  |  |  |      |     |  |  |  | 2.86 |       |

Hence, taking the outside figures and allowing full salary to the buttermakers the bare current manufacturing expense was six cents more per pound of butter at creameries having an output of up to 10,000 pounds for the season than at the creamery making

115,000 pounds.

Assuming now that the creameries in each of the several groups had an equally good market for their butter and that all their current manufacturing expenses had to be met out of the proceeds from the sales of their products it will be readily seen that the net returns to the patrons would of necessity vary considerably and at the smaller creameries fall below the point at which creamery patronage would be considered profitable.

In the foregoing comparison we have not included the cost of the items numbered 4, 5, 6 and 7, for the reasons stated, but they will certainly have to be taken into account in actual creamery operations. The point I wish to make here is that a properly constructed, properly equipped and efficiently operated creamery with a small butter output is, in open competition, unprofitable to its

operator or to its patrons—or to both.

As the general expansion of our dairy industry will eventually necessitate the establishment of additional creameries the promoters of new creameries or, rather, the people who are to foot the bill will be well advised to consider carefully, before committing themselves to any considerable expenditure, whether a new creamery in a given locality has a reasonable chance to become a successful public service institution. A careful consideration will naturally include a survey of (1) present competitive agencies, (2) alternative markets, (3) extent of local patronage that may be economically secured and

held by ordinary good management. In the case of a proposed co-operative creamery the survey should include the attitude of the people of the district, more especially the prospective patrons and stockholders, towards the principle and practice of co-operation in that business. A clear understanding of these factors and of the business of creamery operation should enable the people who are most concerned to avoid the pitfalls which have been the undoing of many creameries here and elsewhere, and to build on a solid foundation when they find that time and conditions are ripe for action.

#### DAIRY STOCK.

Another sign of the times is the increasing demand for good dairy cattle. A number of local breeders are continually importing from Eastern Canada pure bred breeding stock and find a ready demand for all the young animals they have for sale. Several of the breeders have cows entered in the Record of Performance Test of the Dominion and one breeder has animals entered in the Authenticated Milk and Butter Fat Test of the American Jersey Cattle Club. In order to facilitate and encourage this work the department has in the past furnished the services of test inspectors.

While on this subject, I believe that the time is at hand when with increasing attention to diversified farming our dairymen will devote greater efforts toward the grading up of their present stock for dairy purposes through better feeding, judicious selection and breeding. A frequent and systematic use of the weighing scales and the Babcock tester will reveal many excellent yielders among the cows of the common stock which will furnish good foundation material for profitable grade dairy herds. The work of cow testing associations in the older dairy districts of Canada and elsewhere has been of great benefit to the participating dairymen and it will give the same results here once it is taken up in earnest. First, however, we must have better feeding and care of the animals, especially in winter. Unless and until a dairy cow is fed up to her capacity for milk production the scales and tester can give no reliable information about her as an economic producer. I am pleased to be able to include in this report the manuscript of an address given by Mr. W. F. Stevens, Live Stock Commissioner, before the Dairy Convention at Innisfail on the subject of the feeding and care of dairy stock.

### APPOINTMENT OF DAIRY INSPECTORS.

Under the provision of section 38 of chapter 16 of the statutes of 1907 and amendments thereto, entitled "The Dairymen's Act" the Minister of Agriculture was pleased to appoint as dairy inspectors Christian Peter Marker, Calgary; Herbert Shanley Pearson, Red Deer; and George William Scott, Innisfail, under date of May 4th, 1911.

### CREAMERY BUTTER PRODUCTION.

Notwithstanding the greatly increasing demand for milk and cream for direct consumption in our cities and towns and good local markets for homemade butter the reported butter output of the 56 creameries operated in the province during 1911 was in round numbers 2,540,000 pounds valued at \$635,000, as against 2,315,000

pounds manufactured in 60 creameries and valued at \$575,000 for the preceding year, an increase of about 10 per cent.

### CHEESE PRODUCTION.

Eight cheese factories were in operation during the past season and their combined cheese production was about 50 tons, valued at \$14,000, as against an output of 110 tons of eleven factories valued at \$27,500 for the season of 1910.

# II.—CREAMERIES OPERATED IN ALBERTA, 1911.

| NAME OF CREAMERY                                      | PROPRIETOR                        | P.O. ADDRESS   |
|---|-----------------------------------|----------------|
| 1 Potteral  |                                   |                |
| 1. Bottrel  | J. T. Boucher                     | Bottrel.       |
| 2. Dawn   | J. E. Hansen<br>O. K. Creamery Co | Dawii.         |
| 5. U. K. Creamery                                     | Page Lala Farmana Caramana        | morningside.   |
| 4. Deaver Lake  | Beaver Lake Farmers' Creamery     | DI             |
| 5 Durronnar Chaamanr Again                            | Association                       | Durana         |
| 6. Olda Craamary Association                          | W Hamilton Countries              | Duvernay.      |
|   | W. Hamilton, Secretary            |                |
|   | James McNicholl, Secretary        | Blacklaigs.    |
| 8. Innisfail Union Butter and<br>Cheese Manufacturing |                                   |                |
|   | T C Harry Countains               | T:             |
| Association   | L. C. Harry, Secretary            |                |
|   | D. Morkeberg, Secretary           | markervine.    |
| 10. Red Deer Butter and Cheese                        | E C                               | D - 1 D        |
|   | E. Carswe'l, Secretary            |                |
| 11. Stettler  | Alberta Produce Co                |                |
| 12. Wetaskiwin Dairy Ass'n                            | Wetaskiwin Dairy Association      | wetaskiwin.    |
| 13. The Battle River Creamery                         | Too D Stoment Secretary           | F D1-          |
|   | Jas. D. Stewart, Secretary        | геггу банк.    |
| 14. Viking Co-operative Cream-                        | Too C Dowlson Connetoner          | Vilain a       |
| ery Association                                       | Jas. C. Barker, Secretary         | Viking.        |
| 15. Daysland Creamery Ass'n                           |                                   |                |
|   | Donald Cameron, Secretary         | Lake view.     |
| 17. Conjuring Creek Creamery                          | Wm Hudson Comstant                | Desfand        |
| Association   | Wm. Hudson, Secretary             | buiora.        |
| 18. Blind Man Valley Creamery                         | John H. Beeley, Secretary         | Dimborr        |
| 19. Spring Lake Dairy Ass'n                           | A Tonnon Constant                 | Coming Tales   |
| 20. Neapolis  | A. E. I                           | Spring Lake.   |
|   |                                   |                |
| 21. Ferintosh   |                                   |                |
| 23. Wild Rose.  |                                   |                |
| 24. Golden Rod  | T A Broreton                      | Clivo          |
| 25. Three Hills                                       |                                   |                |
| 26. Bentley   |                                   |                |
| 27. Golden Rose                                       | The I Harris Co. Limited          | Camrose        |
| 28. Lakeside  | The Leduc Produce Co              | Leduc          |
| 28. Lakeside  | J. H. Cameron                     | Mayton         |
| 30. Knee Hill   | Nelson & White                    | Sunny Slope    |
| 31. Carbon  |                                   |                |
| 32. Parisian  |                                   | Trochu.        |
| 33. Meeting Creek Creamery                            |                                   |                |
| 34. Pine Lake   | Trimble & Edwards                 | Pine Lake.     |
| 35. Trimble   | H. W. Trimble                     | Red Deer.      |
| 36. Clover Hill                                       | F. N. Ballard                     | Didsbury.      |
| 37. Pincher Creek                                     | McKerricker Bros                  | Pincher Creek. |
| 38. Red Lodge   | Colin Thomson                     | Red Lodge.     |
| 39. Edmonton City Dairy                               | Edmonton City Dairy, Limited.     | lEdmonton.     |
| 40. Lilly Bank  | J. E. Cunningham                  | Vegreville.    |
| 41. Blue Bell   | W. A. Brodie & Co                 | Mannville.     |
| 42. Lacombe   | G. A. Anderson                    | Lacombe.       |
| 43. Riviere Qui Barre                                 |                                   |                |
| 44. New Norway  | The J. Harris Co                  | Camrose.       |
| 45. Quarrel   | John A. Brown                     | Quarrel.       |
| 46. Elkton  | R. H. McNair                      | Elkton.        |

| NAME OF CREAMERY  47. Black Diamond. 48. Calgary Central. 49. Wetaskiwin. 50. C.P.R. Demonstration Farm. 51. Morinville. 52. The Carlyle Dairy Co. 53. The Alberta Central. 54. The Cardston Creamery As'n. 55. The High River Creamery. 56. Birch Lea. | Wetaskiwin Produce Co. C.P.R. Co. Noe Beaupre Carlyle Bros. W. B. Podmore. D. S. Beach, Secretary. | Calgary. Wetaskiwin. Strathmore. Morinville. Calgary. Edmonton. Cardston. |
|---|--|---|
| 56. Birch Lea   | Park Bros  | Sion.   |

# III.—CHEESE FACTORIES IN ALBERTA OPERATED IN 1911.

| FACTORY  | PROPRIETOR                                    | P.O. ADDRESS                   |
|--|---|--------------------------------|
| Eckville. Pitcox. Kunsamo. Vegreville. Copland. St. Paul de Metis. | Henry Poulin, Secretary Napoleon Auclair      | Vegreville.<br>Lamoureux.      |
| St. Paul de Metis. Erskine.  | O. Massicotte.<br>Erskine Butter & Cheese Co. | St. Paul de Metis.<br>Erskine. |

# IV.—GOVERNMENT OPERATION OF CREAMERIES.

The arrangement by which the department had for a number of years undertaken the operation and local management of cooperative creameries was discontinued at the beginning of the summer season 1911. So while this work would in future devolve upon the creamery associations individually the department offered to continue the marketing of butter not only for co-operative creameries as in the past but also for privately operated creameries. Table I is a continuation of the statistical information presented in each year's annual report of the department as to patronage, butter output, average price and gross value of the butter of the several government creameries from May 1, 1905, to April 30, 1911. Corresponding particulars of the business of the creameries which commenced operation prior to May 1906, may be found in the report of the Department of Agriculture for 1908.

TABLE I.—SUMMARY OF BUSINESS DONE AT GOVERNMENT CREAMERIES IN ALBERTA, 1906 TO MAY 1, 1911, INCLUSIVE.

| Gross<br>value of<br>product                           | \$5,881.38<br>1,192.42    | 40,261.03<br>9,852.65<br>28,123.01<br>6,728.81<br>29,539.38<br>12,589.17<br>37,465.71<br>9,634.44<br>22,882.46<br>2,530.49 | 21,323.57<br>2676.23<br>12,497.72<br>4,497.72<br>22,388.06<br>11,000.57<br>23,411.43<br>7,207.14<br>18,872.76<br>1,279.18 |
|--|---------------------------|--|---|
| Number of days in operation                            | 148<br>90                 | 187<br>174<br>174<br>189<br>181<br>168<br>196<br>168<br>194<br>1167  | 187<br>124<br>189<br>181<br>181<br>196<br>198<br>194<br>167   |
| Manufac-<br>turing<br>Charge<br>per fb.                | Cents 4                   | 4<br>3.989<br>4 3.253<br>3.253<br>4 2.01<br>2.01   | 4 4 4 4 4 4 3 3 3 4 4 4 4 4 4 4 5 3 3 4 4 4 4   |
| Average<br>price<br>realized<br>at Creamery<br>per lb. | Cents<br>21.647<br>23.715 | 21.589<br>27.848<br>23.468<br>30.322<br>25.674<br>25.947<br>28.246<br>28.246<br>28.246<br>28.246                           | 21. 315<br>27. 882<br>23. 481<br>30. 123<br>25. 539<br>25. 813<br>28. 268<br>26. 01                                       |
| Lbs. of<br>Butter<br>manufac-<br>tured                 | 27,169 5,028              | 186,486<br>35,380<br>119,834<br>22,191<br>115,056<br>48,517<br>155,776<br>34,108<br>88,284<br>8,972                        | 100,036<br>20,358<br>20,358<br>14,931<br>87,585<br>42,620<br>97,591<br>72,546<br>72,546<br>42,556                         |
| Lbs, of<br>Cream<br>Supplied                           | 16,136                    | 305,116,2<br>78,626<br>330,405<br>155,640<br>467,629<br>110,389  | 110,427.7<br>51,866.5<br>277,874<br>145,231<br>316,523.5<br>84,428  |
| Inches of<br>Cream<br>Supplied                         | 24,708.8                  | 144,736 8<br>31,333.9<br>17,953.2  | 83,088.0<br>17,154.9<br>12,670.0  |
| No. of<br>Patrons                                      | 54                        | 233<br>173<br>179<br>97<br>164<br>164<br>218<br>155  | 161<br>83<br>83<br>69<br>125<br>142<br>102  |
| Season   | 1906                      | 1906<br>1906-7<br>1907-8<br>1908-9<br>1908-9<br>1909-10<br>1910<br>1910-11   | 1906 - 7<br>1906-7<br>1907-8<br>1908-9<br>1908-9<br>1909-10<br>1910 - 1   |
| NAME OF STATION  | Calgary                   | Innisfail  | Red Deer.   |

| 15,176,95<br>3,885.64<br>5,028.61<br>4,071.33<br>7,268.65 | 19,080,85<br>5,654,14<br>19,121,02<br>4,880,71<br>23,172,60<br>8,320,03<br>23,778,47<br>6,882,80<br>20,317,01<br>3,052,33 | 22,472.11<br>4,531.88<br>16,686.13<br>2,897.69<br>16,243.94<br>3,118.72<br>16,729.90<br>1,594.31 | 19,068,65<br>3,119,06<br>9,356,22<br>2,052,25<br>11,657,49<br>7,818,79<br>1,895,79  | 13,352.51<br>2,830.28<br>1,191.32 |
|---|---|--|---|-----------------------------------|
| 195<br>189<br>146<br>168                                  | 187<br>174<br>189<br>181<br>168<br>168<br>194<br>194<br>167   | 187<br>181<br>181<br>168<br>168<br>168   | 1874<br>174<br>189<br>181<br>196<br>196<br>194  | 187<br>134<br>62                  |
| * + + + + -   | 3.728<br>3.377<br>3.9522<br>4.39<br>1.795   | 4 4 22 4 23 4 4 4<br>77 - 75<br>83   | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 1 1 6 3 1 6 3 1 6 | 444                               |
| 21.073<br>22.598<br>24.988<br>23.763<br>25.82             | 21.326<br>27.882<br>23.227<br>30.057<br>30.057<br>25.478<br>25.626<br>23.9617<br>28.06<br>26.04                           | 21.376<br>27.667<br>23.279<br>30.118<br>25.518<br>25.774<br>24.0704                              | 21.12<br>27.602<br>23.19<br>30.021<br>25.493<br>25.889<br>23.8399<br>27.766   | 20.964<br>22.705<br>23.97         |
| 72,021<br>17,194<br>20,124<br>17,133<br>28,149            | 89,471<br>20,436<br>82,322<br>14,907<br>90,951<br>32,467<br>99,110<br>78,018<br>10,600                                    | 105,129<br>16,262<br>71,678<br>9,621<br>63,656<br>12,100<br>69,504<br>5,682                      | 90,285<br>11,300<br>40,345<br>6,836<br>45,728<br>13,005<br>82,797<br>6,242  | 63,729<br>12,465<br>4,970         |
| 47,116<br>64,911<br>59,474                                | 168,501 3<br>49,244<br>251,740 4<br>101,300<br>277,531 5<br>80,400  | 186,071<br>35,685<br>190,450<br>39,588<br>213,920<br>19,264                                      | 108,299.05<br>22,657.4<br>137,185.7<br>44,669.9<br>102,707.2<br>26,114.3  | 26,298.55                         |
| 56,579.7  | 68,523.5<br>17,477.8<br>17,404.6  | 80,128.1<br>14,150.3<br>9,334.3  | 67,987.2<br>9,739.8<br>5,331.4  | 48,569.1                          |
| 100<br>388<br>37<br>                                      | 100<br>100<br>101<br>101<br>120<br>101<br>101   | 117<br>63<br>114<br>48<br>779<br>774<br>102  | 153<br>83<br>83<br>79<br>64<br>64   | 108<br>19<br>15                   |
| 1906<br>1907<br>1908<br>1909                              | 1906<br>1906–7<br>1907–8<br>1908–9<br>1908–9<br>1909<br>1909<br>1910<br>1910  | 1906<br>1906-7<br>1907-8<br>1908-9<br>1909-10  | 1906<br>1906-7<br>1907<br>1907-8<br>1908-9<br>1909<br>1909-10   | 1906<br>1907<br>1908              |
| Wetaskiwin.   | Markerville   | Olds   | Blackfalds  | Lacombe                           |

TABLE I.—SUMMARY OF BUSINESS DONE AT GOVERNMENT CREAMERIES IN ALBERTA, 1906 TO MAY I, 1911, INCLUSIVE.—Continued.

|                  |  |                             |                                 |  | ter terminality                               | Early, 1900 10 Mai I, 1911, INCLUSIVE.—Continued | r, 1911, INC                            | LUSIVE CON                  | tinued.   |
|------------------|--|-----------------------------|---------------------------------|--|---|--|---|-----------------------------|---|
| NAME OF STATION. | Season   | No. of<br>Patrons           | Inches of<br>Cream<br>Supplied  | Lbs. of<br>Cream<br>Supplied                             | Lbs. of<br>Butter<br>manufac-<br>tured        | Average price realized at Creamery per lb.       | Manufac-<br>turing<br>Charge<br>per fb. | Number of days in operation | Gross<br>value of<br>product                              |
| Beaver Hills     | 1906   | 21                          | 4,731.1                         |  | 6,482   | Cents<br>20.208                                  | Cents<br>4                              | 29                          | \$1,309.90  |
| Clover Bar       | 1906   | 47                          | 12,665.8                        |  | 14,090  | 20.788   | 4                                       | 132                         | 2,929.18  |
| Earlville        | 1906<br>1907<br>1908<br>1908–9<br>1909<br>1909 | 141<br>65<br>69<br>74<br>86 | 71,876.0 5,974.9                | 81,836.5<br>125,690.3<br>18,189.6<br>132,393<br>4,936.25 | 90,768<br>34,429<br>38,714<br>5,392<br>40,916 | 21.219<br>22.949<br>25.492<br>24.746<br>23.7991  | 4 6 6 6 4 4 4 6 8 8 8 8 8 8 8 8 8 8 8 8 | 216<br>181<br>188<br>47.    | 19,260.13<br>7,901.31<br>9,869.09<br>1,334.33<br>9,737.65 |
| Evarts           | 1910<br>1906<br>1907<br>1907–8                 | 27<br>79<br>59<br>19        | 35,210.8 4,423.1                | 4,813<br>60,683.1<br>13,617                              | 1,375<br>1,375<br>37,292<br>23,390<br>3,593   | 28.32<br>28.32<br>21.126<br>22.819<br>29.974     | ाम समम                                  | . 188<br>186<br>186         | 7,878.48<br>5,337.51<br>1,076.98                          |
|                  | 1908–9<br>1909                                 | 32 44                       |                                 | 84,467.2<br>27,308.3<br>65,201.3                         | 26,012<br>7,616<br>20,072                     | 25.418<br>25.567<br>23.8879                      | 444                                     | 168<br>196<br>168           | 6,611.80<br>1,947.19<br>4,794.79                          |
|                  | 1906<br>1906–7<br>1907<br>1907                 | 92<br>60<br>89              | 43,255.0<br>6,227.2<br>16,979.7 | 96,371   | 54,999<br>7,190<br>53,430                     | 21.081<br>27.630<br>23.17                        | 4 3.809                                 | 173<br>109<br>188           | 11,594.57<br>1,986.61<br>12,380.11                        |
| Ferry Bank       | 1908<br>1908–9<br>1909                         | 89<br>55<br>70              |                                 | 130,776.5<br>14,411.5<br>78,133                          | 44,554  | 25.435<br>25.867                                 | 444                                     | 168                         | 499.44 $11,332.34$ $1,195.61$                             |
|                  | 1910<br>1910–11                                | :::                         |                                 |  | 26,574  | 25.76<br>25.76<br>28.044                         | 4 co co                                 | 168                         | 6,552.17<br>6,845.36<br>380.85                            |

| 6,017.75<br>853.49 | 5,291.47<br>7,329.05<br>95.80<br>6899.17<br>11,358.88<br>2,338.67<br>7,918.67<br>471.15 | 4,344.01<br>232.53<br>2,626.92<br>6,725.79<br>6,22.41<br>5,002.04<br>1,395.03 | 6,208.11<br>5,360.69<br>4,311.04<br>2,065.31 | 1,508.46 607.79 | 6,131.29<br>10,711.03<br>3,568.42<br>6,944.80<br>476.27<br>3,394.39 | 951.30     |
|--------------------|---|---|--|-----------------|---|------------|
| 153                | 117<br>195<br>13<br>158<br>181<br>194<br>167  | 126<br>56<br>134<br>168<br>168  | 146<br>172<br>153                            | 64 .            | 174<br>188<br>196<br>168<br>40                                      | 69         |
| 70 <del>4</del>    | 44444460<br>26  | <b>444444</b>   | 4444   | 44              | 4 & 4 4 4 4 4 8 4 8 1 8 1 8 1 8 1 8 1 8 1 8                         | 4          |
| 21.52              | 21.798<br>23.3404<br>30.22<br>25.611<br>24.0746<br>28.219<br>25.1                       | 21.184<br>27.421<br>22.41<br>25.319<br>24.826<br>23.6447<br>25.81             | 21.088<br>22.71<br>25.192<br>23.6603         | 21.46<br>22.053 | 22.942<br>25.384<br>25.7<br>23.7925<br>27.852<br>24.33              | 22.1645    |
| 31,151             | 24,274<br>31,400<br>31,7<br>26,938<br>47,182<br>8,266<br>31,542<br>1,680                | 20,506<br>848<br>11,722<br>26,564<br>2,502<br>21,155<br>5,415                 | 29,439<br>23,605<br>17,113<br>8,729          | 7,029 2,756     | 26,725<br>42,196<br>13,884<br>29,189<br>1,710                       | 4,292      |
| 95,959<br>11,494   | 80,158 9<br>1,270<br>92,454 1<br>160,961<br>32,566                                      | 34,022.4<br>88,316<br>8,165.5<br>72,038<br>20,633                             | 67,879.9<br>49,694.9<br>25,244.1             |                 | 71,423.3<br>128,697<br>49,870<br>90,583<br>5,771<br>43,684          | 15,804.5   |
|                    | 20,650.3  | 15,752.4<br>759.3<br>1,014.8  | 23,726.1                                     | 6,122.8         | 2,598.1   | :          |
| 22.52              | 58<br>60<br>62<br>64<br>64  | 63<br>8 47<br>47<br>15<br>15  | 76<br>57<br>44<br>42                         | 95              | 60<br>86<br>79<br>49<br>49  | 24         |
| 1906               | 1906<br>1907<br>1907–8<br>1908<br>1909<br>1910<br>1910                                  | 1906<br>1906-7<br>1907<br>1908<br>1908-9<br>1909<br>1910                      | 1906<br>1907<br>1908<br>1909                 | 1906<br>1907    | 1907<br>1908<br>1908–9<br>1909<br>1909–10                           | 1907       |
| Martins            | Pine Creek(Lakeview)  | Rosenroll   | Stettler                                     | Stony Plain     | Content.  | Crossfield |

Table I.—Summary of Business Done at Government Creameries in Alberta, 1906 to May 1, 1911, Inclusive.—Continued.

| n'aea.                               | Gross<br>value of<br>product               | \$1,361.08<br>5,103.02<br>236.47<br>4,371.01<br>162.56<br>4,211.30 | 4,966.26<br>4,877.69<br>4,960.17               | 1,791.51<br>8,177.61<br>2,396.26<br>8,858.30<br>1,683.04<br>6,102.12<br>418.19 | 1,218.75   | 1,488.46<br>559.43 |
|--------------------------------------|--|--|--|--|------------|--------------------|
| TOO TO THAT I, INCLUSIVE: CONCINCION | Number of days in operation                | 61<br>160<br>20<br>168<br>13<br>162                                | . 152<br>152<br>168                            | 94<br>188<br>196<br>168<br>194<br>167  | 45.        | .111               |
| , 1911, INCL                         | Manufac-<br>turing<br>Charge<br>per fb.    | Cents  | 444  | 4  | 4          | 44                 |
| T I VIII OT GOO                      | Average price realized at Creamery per 1b. | Cents<br>22.8583<br>25.327<br>27.370<br>23.88<br>28.076<br>25.87   | 22.6593<br>25.321<br>23.5951                   | 23.797<br>25.177<br>24.935<br>23.7424<br>27.911<br>26.38<br>28.142             | 23.967     | 25.02              |
|                                      | Lbs. of<br>Butter<br>manufac-<br>tured     | 5,938<br>20,148<br>864<br>18,304<br>579<br>16,279                  | 21,917<br>19,303<br>21,022                     | 7,528<br>32,480<br>9,610<br>37,310<br>6,030<br>23,131<br>1,486                 | 5,085      | 5,949              |
|                                      | Lbs. of<br>Cream<br>Supplied               | 17,998<br>61,893<br>2,616<br>54,483<br>2,143                       | 72,304.85<br>52,355.9<br>55,113 <sub>.</sub> 4 | 23.045<br>95,797.5<br>29,671<br>108,675<br>18,463<br>66,254                    | 18,098     | 20,016             |
|                                      | Inches of<br>Cream<br>Supplied             |  |  |  |            |                    |
|                                      | No. of<br>Patrons                          | 39<br>51<br>18<br>46<br>19.  | 60<br>49<br>49                                 | 24<br>25<br>39<br>69<br>39<br>31   | 53         | 27.                |
|                                      | Season                                     | 1907<br>1908<br>1908–9<br>1909<br>1909–10                          | 1907<br>1908<br>1909                           | 1907<br>1908<br>1908–9<br>1909<br>1909–10<br>1910                              | 1908       | 1908               |
|                                      | NAME OF STATION                            | Rimbey   | Lamerton                                       | Spring Lake  | Vegreville | Bonnie Glen        |

| Vermilion       | 1908<br>1908–9<br>1909             | 77<br>39<br>29       | : : : | 67,876.3<br>7,038<br>17,328.5               | 20,200<br>1,645<br>4,599                   | 25.213<br>27.625<br>23.1433                    | 444        | 105<br>34<br>90                | 5,093.02<br>454.43<br>1,064.36                       |
|-----------------|------------------------------------|----------------------|-------|---|--|--|------------|--------------------------------|--|
| Conjuring Creek | 1908<br>1908–9<br>1909<br>1909–10  | 56<br>47<br>76<br>21 |       | 75,189.4<br>10,297.5<br>85,581.9<br>3,263.7 | 22,915<br>2,696<br>27,220<br>978<br>17,526 | 25.228<br>23.544<br>23.7712<br>28.019<br>26.02 | 44446      | 160<br>48<br>168<br>168<br>167 | 5,781.03<br>634.76<br>6,470.52<br>274.03<br>4,561.66 |
| Viking.         | 1909<br>1910<br>1910–11            | 62                   |       | 47,687                                      | 17,498<br>35,203<br>5,770                  | 24.4818<br>26.25<br>28.241                     | 4<br>33.23 | 84<br>171                      | 4,283.82<br>9,243.68<br>1,629.55                     |
| Daysland        | 1909<br>1909–10<br>1910<br>1910–11 | 62<br>29<br>55       |       | 64,614.5<br>6,346.8<br>73,298               | 23,384<br>2,177<br>27,330<br>7,649         | 23.8406<br>27.7<br>26.2<br>28.682              | 4444       | 132<br>67<br>167               | 5,574.89<br>603.03<br>7,162.20<br>2,193.96           |

Table II gives a summary of the foregoing by summer and winter seasons, respectively.

TABLE II.—Totals of the Foregoing by Seasons.

|  | 1  | 1                                  | THE .  |  | DI DEABON  |   |
|--|--|------------------------------------|--|--|--|---|
| SEASON   | No. of<br>Patrons  | Inches of<br>Cream<br>Supplied     | Lbs. of<br>Cream<br>Supplied   | Lbs. of<br>Butter<br>manufac-<br>tured   | Average<br>price<br>realized at<br>Creamery<br>per 1b.                                   | Gross<br>Value of<br>Product  |
| 1906<br>1906-7<br>1907<br>1907-8<br>1908<br>1908-9<br>1909-10<br>1910-11 | 1,755<br>526<br>1,268<br>387<br>1,370<br>970<br>1,554<br>640 | 808,311.5<br>96,843.2<br>107.292.5 | 95,959<br>1,600,986,71<br>258,533,9<br>2,377,474,2<br>653,996,8<br>2,504,361,6 | 1,050,356<br>111,774<br>653,208<br>74,062<br>776,241<br>197,545<br>818,462<br>117,324<br>465,309<br>42,071 | cents 21, 227 27, 784 23, 161 30, 149 25, 432 25, 708 23, 9282 28, 1415 25, 9106 28, 418 | \$222,959.11<br>31,053.10<br>151,291.78<br>22,329.38<br>197,411.24<br>50,786.43<br>195,843.77<br>33,172.40<br>120,564.74<br>11,882.85 |
|  |  | 1,012,447.2                        | 7,491,312.21   | 4,306,352  |  | \$1,037,294.80  |

Table III gives a summary of butter sales by the department for the summer season 1911. The announcement having been made that the department would undertake the marketing of creamery butter for any creamery in the province, along certain uniform lines, eight additional creameries wishing to take advantage of this service entered into an agreement with the department in that behalf. While a number of the creameries named shipped their entire butter output to the department for marketing, others who had contracted sales prior to entering into this arrangement, sent but a portion of their output and only during a part of the season. This circumstance explains to some extent the variations in the given selling price of the butter from the several creameries, though the difference in quality (grade) was also an important factor.

TABLE III.—Summary of Butter Sales, Summer Season 1911.

|   | , ,  | UMMER SEASON  | 1911.   |
|---|--|---|---|
| CREAMERY  | Pounds of butter sold  | Value<br>at<br>Creamery   | Average price<br>at creamery<br>for Season  |
| Trimble & Edwards. Trimble Creamery Co. Innisfail. Markerville. Red Deer. J. A. Brown. A. Barrett. T. A. Brereton. Ferry Bank. Wetaskiwin. Ryley. Viking. Daysland. Lakeview. Conjuring Creek. Rimbey. Spring Lake. Cardston. High River. | 3,514<br>6,343<br>27,037<br>50,827<br>45,370<br>13,912<br>16,056<br>6,880<br>21,786<br>40,050<br>6,507<br>57,553<br>36,831<br>17,764<br>28,985<br>14,986<br>19,267<br>3,354<br>2,250 | \$ 892.22<br>1,606.70<br>6,976.27<br>13,317.80<br>11,794.12<br>3,603.41<br>3,936.44<br>1,619.89<br>5,431.64<br>10,181.02<br>1,725.31<br>15,154.81<br>9,504.75<br>4,318.77<br>7,489.64<br>3,837.15<br>4,961.70<br>794.34<br>593.27 | cents 24.82 24.76 25.23 25.63 25.42 25.33 23.95 22.97 24.36 24.85 25.94 25.76 25.23 23.74 25.30 25.03 25.18 23.11 25.80 |
| Totals and average  | 419,272  | 105,344.13  | 25.125  |

### V.—CREAM GRADING AT CREAMERIES.

The principle of grading and the payment of a premium for quality of cream and butter was adopted by the government creameries at the beginning of the season of 1910 and continued along the same lines in 1911. Some of the best privately operated creameries in the province took it up as well in 1911 and report excellent results. The adoption of the principle of paying a premium for quality has resulted in a very marked improvement in the cream supply, and as a consequence, an increased selling value of the butter made in the creameries concerned. The premium principle is sound in that the patron is given a chance to participate in the increased value which his skill and care in handling the raw material gives to the finished product of the creamery. It is expected that the grading and premium system will soon be adopted by practically all the c eameries in the province; by the majority because it is good business and by the others because their quality patrons will demand it or transfer their patronage to a more appreciative market.

Having carried on the grading and quality basis of payment of butter for two full seasons it is interesting to note the progress made in the matter of improvement of the quality from year to year. The improvement in the quality of the butter has been brought about by a corresponding improvement in the quality of the cream

delivered by the patrons.

The following table presents a comparative statement of the first and second grade butter in the production of all creameries, of which we have complete records for three full seasons. The butter output of several other creameries was included in the work during a portion of that period but it was considered advisable to show only the record of these creameries which had operated without change of management for three successive seasons.

TABLE IV.—Provincial Government Creameries, Alberta.

GRADING OF BUTTER.

| Creamery<br>Serial No.<br>(1) | SUMMER 1909    |               | SUMMER 1910                |               | SUMMER 1911               |           |
|-------------------------------|----------------|---------------|----------------------------|---------------|---------------------------|-----------|
|                               | % Firsts (2)   | % Seconds (3) | % Firsts (4)               | % Seconds (5) | % Firsts (6)              | % Seconds |
| 1. N                          | 33.6           | 66.4          | 98.26                      | 1.74          | 100                       |           |
| 2. D                          | 90.2<br>*25.80 | 9.8           | *30.07<br>93.37            | 6.63          | *57.43<br>96.36           | 3.64      |
| 3. E                          | 90.1<br>*12.27 | 9.9           | *46.06<br>91.79            | 8.21          | *38.71<br>93.96           | 6.04      |
| 4. V                          | 57.9           | 42.1          | *36.32<br>x87.95<br>*13.44 | 12.05         | *39.75<br>99.81           | .19       |
| 5. C                          | 77.7<br>*7.25  | 22.3          | 84.43<br>*18.38            | 15.57         | *35.43<br>85.88           | 14.12     |
| 6. S                          | 55.6           | 44.4          | 92.45<br>*22.38            | 7.54          | *23.41<br>86.43           | 13.57     |
| 7. Y                          | 84.9<br>*7.68  | 16.1          | 96.97<br>*28.08            | 3.03          | *21.19<br>82.81<br>*27.87 | 17.19     |
| 8. W                          | 55.3<br>*3.23  | 44.7          | 83.93<br>*48.21            | 16.07         | 84.00<br>*32.97           | 16.00     |
| 9. L                          | 30.3           | 69.7          | x84.10<br>*10.54           | 15.90         | 76.78<br>*24.19           | 23.22     |
| 0. K                          | 48.1           | 51.9          | x74.89<br>*12.90           | 25.11         | x53.52<br>*15.02          | 46.48     |
| 1. T                          | 38.6           | 61.4          | x30.04                     | 69.96         | 26.69<br>*2.90            | 73.31     |
| verage                        | 72.39<br>*9.13 | 27.61         | 84.53<br>*26.21            | 15.47         | 85.67<br>*32.87           | 14.33     |
| hurnings<br>Scored            | 1372           |               | . 954                      |               | 1002                      |           |

It will be noted that the percentage of first grade butter made in these creameries increased under the premium system from 72.39 for the season of 1909 to 84.53 for 1910 and 85.67 for 1911, with a corresponding decrease of "seconds." Not only that, the percentage of extras, that is, high scoring "firsts" increased from 9.13 in 1909 to 26.21 in 1910 and 32.87 in 1911.

The letter x indicates the creameries which did not pay a premium for first grade cream during the season for which the figures are given.

Reference to the table will show the movement of the grades in the case of individual creameries from season to season. The figures preceded by a star (\*) indicate the percentage of extras, that is, high scoring "firsts."

The grading of the cream furnished by the patrons and payment according to its quality and condition brings home repeatedly and in a practical way the lesson that it pays to handle dairy products with intelligent care. If we are to develop our dairy industry along profitable lines we must produce quality goods so that the ultimate market, the consumer, may feel that he is getting value for his money when he buys our products. While by reason of the specialization of modern manufacturing and marketing methods the dairy farmer does not often get into personal contact with the consumer of h s products and while he may think that the identity of his products become lost in the process of marketing he will certainly find that in attending to his own share of the production process

it will be good business on his part to at least follow them in imagination to their ultimate market—the consumer, to anticipate his needs and preferences and to do all he can towards establishing the point of contact that will result in the coveted "repeat orders,"

the joy of every good business man's heart.

It was the writer's privilege to attend and address the Dominion Dairy Conference at Ottawa in December on the subject of grading and quality basis payment of cream and butter. A unanimous resolution was adopted by the conference recommending creameries, especially those following the cream gathering plan, to adopt a system of grading and premium for quality payment.

## VI.—Convention of Creamery Delegates at Innisfail.

Following are extracts of letters mailed in December, 1910. by order of the Honourable the Minister of Agriculture to the secretaries of the creamery associations whose creameries had been operated by the government during 1910, the secretaries of associations and to proprietors who had individually operated creameries in the province during the year inviting them to attend a convention of creamery delegates at Innisfail on January 4th, 1911:

"The special attention of the convention will be invited to the consideration

of the following matters, viz.:

"(1) Review of the past season's business of the Government Creameries. including (a) the marketing of the butter and the prices realized; (b) the application of the grading system and premium basis payment for butter and cream, and (c) the working out of the new provisions contained in this year's working agreement whereby the associations assumed more or less direct control of the local management of the business of the creameries. The delegates will be given ample opportunity to discuss these various matters from their association's point of view, leading up to the consideration of-

"(2) Future arrangement respecting the business of the creameries.
"Several associations did not renew the agreement with the department this year and have therefore conducted the whole business themselves, including the selling of the butter output, under the supervision of their respective boards of directors. These associations will also be invited to send delegates and to present a statement of this season's business for the information of the convention.

"Generally, the business of the convention will include reports and discussions on the condition of dairying in the province, on the past season's operations of the government creameries, markets and marketing of butter, the results of the season's experience in the grading of cream and butter and the payment of a premium on the basis of grade, the new provincial dairy legislation and other matters which may have a bearing upon the development of the dairy industry of our province."

The following creameries, acting on the invitation, were represented as follows on the opening day of the convention:

| The Innisfail Association       | 11. M. McLean, Buttermaker.                             |
|---------------------------------|---|
| The Lakeview Association        | Wm. M. Graham, President.                               |
| The Wetaskiwin Association      | Jas. Bradley, Secretary-Treasurer.                      |
| The Markerville Association     | B. Bjornson, President. O. Sigurdson, Director.         |
| The Conjuring Creek Association | D. Morkeberg, Buttermaker and Secretary.                |
| The Ferry Bank Association      | L. Doran, Director.                                     |
| The Rimbey Association          | John H. Beeley, Secretary.  A. A. Munro, Buttermaker    |
| The Content Association         | Amos Wilton, President.                                 |
| The Blackfalds Association      | G. L. Giegson, Secretary.<br>H. A. Gracey, Buttermaker. |

| $\begin{array}{c} \text{The Red Deer Association} & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & $  |
|---|
| The Viking Association James Lawes, Director,  Jas. C. Barker, Secretary.   |
| The Earlville Association.  U. J. Skalitzky, Buttermaker.  P. R. Stewart, President.  W. W. Batson, Secretary.  |
| The Spring Lake Association (Frank Block, President.  The Daysland Greeners)  The Daysland Greeners (Frank Block, President.  Fred McDonald, Secretary. |
| THE DAYSIANU CLEAMERY ASSOCIATION W/ W/ ModCross Dotto 1  |
| The Beaver Lake Association S. M. Bendikson, President.  J. J. Ormsen, Buttermaker.   |
| The White Swan Creamery, Bowden L. S. Leach Ruttermaker   |
| The Fincher Creek Creamery W R McKerricker Proprietor   |
| The Bentley Creamery J. F. Millar, Proprietor. The Initial Creamery, Harmattan O. O. Taylor, Proprietor.  |
| The Pine Lake Creamery  |
| The veglevine Creamery  |
| The Alberta Central, Edmonton W B Podmore Proprietor  |
| The Calgary Central CreameryP. Pallesen, Proprietor. The Golden Rose Creamery, CamroseJ. Harris, Proprietor.  |
| o,, rioprietor.   |

In addition to the Honourable Duncan Marshall, Minister of Agriculture, the following departmental officials were in attendance: W. F. Stevens, Live Stock Commissioner; H. S. Pearson and Geo. W. Scott, Provincial Dairy Instructors; C. Marker, Dairy Commissioner, and F. W. Underwood, Convention Secretary.

Present were also His Worship the Mayor of Innisfail, Mr. G. W. West; Prof. W. J. Elliott, Superintendent of the C.P.R. Demonstration Farm, Strathmore, who had kindly consented to give an address on the milking machine; J. Bowers, President of the U.F.A.; W. R. Wilson, Manager of the Union Bank, Innisfail; F. S. Jacobs, Editor-in-chief of "The Farm and Ranch Review," and others.

The first session of the convention was called to order at 2.30 p.m. by the dairy commissioner who outlined the programme and called on His Worship Mayor West to address the delegates.

Mayor West in a graceful speech cordially welcomed the convention to Innisfail. In so doing he championed the Innis ail district as one of the pioneer dairy sections of the province and pointed to the general prosperity that had resulted from mixed farming operations. He commended the work that is being done to promote dairying and felt assured that the deliberations of the convention would prove both interesting to those in attendance and beneficial to the industry.

Mr. E. Carswell, who was unanimously elected chairman, addressed the convention briefly and hoped that its labours would result in a better mutual understanding among the creameries and their patrons, in more unity and co-operation. He was pleased to see the Minister of Agriculture present and asked him to address the meeting.

Hon. Duncan Marshall welcomed the delegates who had accepted the invitation of the department. He considered that these annual gatherings of creamery delegates and managers had been a very important factor in the development of an organized dairy industry of the province. He was particularly pleased to see so many privately operated creameries represented and assured them that, while it was erroneously supposed by some that the department had made special pets of the so-called government creameries, because it conducted

the commercial departments of their work, the educational services of the Dairy Commissioner's Branch had always been at their disposal to the fullest extent.

In past years the department had undertaken the local management of a number of creameries as an educational measure. It had appeared necessary and advisable for the department to take up this work, but he considered that this necessity and advisability no longer existed and would like to see the associations assume the local management of their creameries and leave the department to enlarge its scope of work in other directions. For instance, while the department had in the past through its Dairy Commissioner, attended to the marketing of the butter output of the government operated creameries exclusively, he was prepared to place this service at the disposal of the private creameries as well and advice to that effect would be sent to every creamery operated in the province before the next season opens.

He believed that the marketing service of the department had been of benefit, not only to the creameries directly concerned but also to those who had not been able to avail themselves of it. The season's educational scoring competition and the grading system connected with the marketing service had enabled us to cater to special outside markets very largely. The marketing service and, through it, the special markets will now be extended to any creamery in the province. He said that the aim of the department is to help bring Alberta dairy products to so high a standard of excellence

that they will create a continually extending market.

Mr. Marshall next referred to "The Dairymen's Act" in its amended form and showed how its provisions were calculated to promote the square deal not only as between the creameries and cheese factories and their patrons, but also as between the factories themselves and between the producers and consumers. The Act requires that our dairy products be produced under sanitary conditions; it calls for a fair test of the patrons cream and a business-like statement with every payment. These are all very important matters and essential to the building up of satisfactory and permanent business relations.

The Minister referred also to the establishment of provincial demonstration farms which would be conducted on the principle of mixed farming and therefore capable of rendering good service to the dairymen of the province. These farms would demonstrate what profits could be made from raising hogs and cattle, producing grain, milk and butter and other farm products. The farms would also become centres for the distribution of pure, clean seed sold at a reasonable price to the farmer.

It was the intention to place on some of these farms cows of the dual purpose type. He said that we should aim to produce cattle

for the market as well as for the dairy.

C. Marker, Dairy Commissioner, was next called upon to address the convention. He presented a statement of the past season's business of the government creameries. However, as the statistical and general details are published in the department's report for 1910 it is not necessary to repeat or enlarge upon them here.

Referring to the dairy industry on general lines he thought that the time had now come when we should engage more largely in winter dairying. He believed the creameries were ready to do their share in making winter dairying profitable by operating their creameries so long as a reasonable cream supply was forthcoming. Certainly the markets as a general thing stand ready to encourage

winter dairying through paying a high price for our dairy products. Winter dairying demands suitable feed and care of the milking stock it is true, but there is no reason why these could not be provided by the many dairymen as they are now being provided by the comparatively few. Some of the latter are with us and when the subject comes up for discussion we shall learn more about it from them.

Following the foregoing addresses many of the delegates took part in a helpful, general discussion on creamery management, dairy

markets, prices, cream grading, etc.

Before the afternoon session was adjourned a resolution committee of the following delegates was appointed, viz.: D. Morkeberg, Jas. C. Barker, Donald Cameron, E. Carswell, B. K. Grove, Joseph Smith, P. Pallesen, E. J. Fream and J. Harris.

#### EVENING SESSION.

Mr. W. F. Stevens, Live Stock Commissioner, addressed the convention on the subject of "FEED and CARE OF DAIRY STOCK."

When speaking of dairy feeds, it is my custom to mention first those things which can be supplied for nothing. By these I mean sunlight and fresh air. I have no apologies to make for giving precedence to these because it is my observation that these are the ones that are most neglected on the average dairy farm and also because without these the other foods can not give their best results.

What constitutes the proper amount of sunlight for a matured animal is still a matter of more or less dispute. Certain it is that it must be sufficient to destroy those bacteria which always accumulate in places where animals are confined. The Board of Health at Edmonton has fixed four square feet of glass for each matured animal as the required amount. While many may think that this is more than is necessary, and I believe myself it is certainly adequate, yet if only half that amount were supplied conditions on our dairy farms would be far superior to what they now are.

### VENTILATION

As regards the manner of admitting fresh air into the stables and carrying off the foul air without having the same accompanied with a draft, which operations are usually included under the term ventilation, several systems are in vogue. Many of these are elaborate and expensive. I find that it is useless to recommend anything elaborate and expensive to the average farmer, and for that reason I intend speaking only of such systems that may be installed by the farmer himself and without the expenditure of much money.

It is my conviction that there is no better method of admitting fresh air into the stable without occassioning draft than by means of ordinary cheese cloth. The system that must be adopted will depend very much upon the arrangement of each individual stable, but two things should be kept carefully in mind, one is that the fresh air must be admitted at some point near the head of the animal in order that it may be inhaled without first having been vitiated with disagreeable odors or bacteria, and the other point to be observed is that the outlet for the foul air should be immediately over or near the point where the droppings accumulate.

### DRINKING WATER.

One kind of food to which too little attention is given is water. When looking at milk we find it is a liquid; upon analysis it is found to consist of about eighty-five per cent. of water, consequently the food supply must also consist very largely of this commodity. The most common methods of supplying water to the dairy animals of Alberta during the winter months are not what might be called strictly up-to-date. The one most commonly in vogue is that of cutting a hole in the ice on some lake, pool or stream and compelling the animals to drink from it water at a temperature little above the freezing point. This is bad enough for beef animals which are being fed heavily upon grain, but it is not good enough for the delicate organization of a dairy cow, and I am convinced that the shock occasioned by standing out in the cold and imbibing ice-water is the direct cause of the poor success attending the efforts of many of our farmers at winter dairying.

An improvement has been made on many farms by pumping the water fresh from the well while the animals are drinking. This, of course, is far superior to the old method but it is not the best that can be devised and I have no hesitancy at all in saying that any man who is seriously in the dairy business should make it a point to temper the water by some artificial means during the winter months, for his dairy cows, particularly those which are giving milk.

### HEATED WATER TROUGH.

The farmer who is living in a bush country naturally desires to utilize those commodities to which he has the easiest access and which cost him the least money and effort. Consequently he would require a heater in which rough wood could be burned to advantage. A fire box suitable for this may be easily constructed by any person of ordinary skill by using either stones or brick and making a fire box from twelve to eighteen inches high and as long and wide as it is desired, to make the watering trough. This fire box will also serve as a support or foundation for the watering trough. Steel watering troughs may be secured at a reasonable price but a trough may also be constructed cheaply by using a heavy piece of galvanized iron for the bottom of the trough and ordinary plank for the sides which should be of such depth as it is thought necessary to build it.

#### TANK HEATERS.

Where wood cannot be easily obtained and where coal has to be used, the ordinary tank heater I think will be found the most convenient. For a tank holding more than ten barrels of water I would suggest that a somewhat larger heater be secured than is usually offered for sale here. It should be borne in mind that most of the tank heaters which are now on the market were purchased in the United States where the temperatures do not get as low as they do here at times, and it stands to reason that a larger body of fire is necessary in this latitude than in countries farther south, to offset the greater degree of cold. The average heater for sale at present is from 15 to 16 inches in diameter. I think that a heater of from 20 to 24 inches in diameter would be preferable and that there would then be no difficulty in keeping the water of even a 25-barrel tank at a temperature of 90 degrees Fahrenheit during the coldest weather.

I sometimes hear the complaint that it costs too much to buy coal for such purposes. In reply to this objection I can only say that before a cow can combine this water with the solid foods supplied her and convert the same into milk, the temperature of the water will have to be raised to that of her body, and if this is not done artificially by means of coal or wood she will do it herself by those natural processes by which she is enabled to convert hay and grain into heat instead of flesh or milk, and it is well to remember that a cow is not secreting milk during the time

that she is warming water.

### SUCCULENT FOOD.

Another means of supplying water to dairy animals is through the agency of succulent feeds. There are three classes of these in use on the dairy farms of Canada, namely, the various pasture grasses for summer use and ensilage and roots for the winter months. In those districts where there is still a considerable area of unbroken and unenclosed land, the problem of securing summer pasturage is not yet a serious one but the farmer or dairyman who finds himself compelled to graze his animals inside his own fence, soon realizes that it is necessary to get something more productive than our native grasses before he can secure profitable returns from land devoted to pasture. The grass in most common use is timothy. The principal reason for this is that a good stand can be secured at small expense and that it can be sown in a nurse crop. But timothy is not a good pasture grass for this country. It requires moisture earlier in the spring than our rainy season opens and it needs more of it than falls in most parts of Alberta.

### KENTUCKY BLUE GRASS.

Although it falls short of being ideal for the purpose of pasture, farmers and dairymen of the province need not despair on that account, because the best of all pasture grasses for North America, namely, Kentucky blue grass, does well in nearly all parts of the bushy portions of this country. I have seen it as far east as Lloydminster and as far west as Lake Wabamun. I have seen it as far north as the Pembina and as far south as Olds. For more than a year I was in doubt as to its identity because I found the foliage more dense, the colour a richer green and the seed larger and heavier than I had ever seen them in Eastern Canada or the United States. I finally submitted a number of samples to our botanist and chief weed

inspector, Mr. Lewis, for identification and have been advised by him that it is the

Kentucky blue grass.

Kentucky blue grass does not lend itself to a rotation of crops but it is ideal for a permanent pasture. As it is slow in establishing itself it should be sown in connection with timothy, at the rate of eight or ten pounds of blue grass to three pounds of timothy seed per acre. It may be sown in a nurse crop. of timothy seed per acre. It may be sown in a nurse crop. The prime virtue of blue grass is that it imparts quality to everything produced from it. The best horses in North America are grown at the prime produced from it. horses in North America are grown where the blue grass thrives, and there is no better milk, butter or cheese than that obtained from cows pasturing on this grass.

#### BROME GRASS.

It is doubtful if blue grass would be found profitable in what we usually speak of as the short grass sections of the province. For those districts I know of nothing better than brome grass where irrigation is not practiced. I know it is somewhat dangerous to mention even the name of brome grass, yet I have grown it for ten years and have no intention or desire to get rid of it because during that time there have been at least two seasons when I would have been compelled either to reduce my stock or buy feed during the summer months had it not been for my brome grass pasture and I am able to grow more stock every year than I could do without

The brome hay is far superior to timothy for dairy cows and I am inclined to think it is superior to "prairie wool" as well. Owing to its habit of spreading, I would not advise sowing it near where there are either fruit or shade trees nor where there is shrubbery of any kind. It should not be sown in a nurse crop, but on a carefully prepared summer fallow or on land that was planted to vegetables the year before, and it should not be pastured during the first year. It requires almost as much care in starting as does alfalfa.

#### CORN VS. ROOTS.

The principal crop used for ensilage purposes is Indian corn. As the growing of Indian corn has not yet been placed upon a commercial basis in Alberta and as the corn is ready for harvest here at almost the same time as our ordinary grain crop, there is danger that the man who is farming as well as dairying will find his fall work crowded into too short a space of time should he attempt to grow ensilage corn. This is particularly true of those sections which are subject to early autumn rains and in which the work of harvesting is sometimes seriously delayed. these districts I am urging the growing of root crops rather than that of ensilage corn. There are several reasons for this. Our root crops will stand more severe weather than will Indian corn, they make their best growth after the Indian corn is supposed to have been harvested. The other farm crops may be harvested, stacked and threshed, and a considerable amount of fall ploughing can be done before it is necessary to begin to harvest the root crop.

We hear a great many objections raised to the growing of root crops in Alberta. One man says that they consist of 90 per cent. of water; another man says they only contain about one-half the amount of dry matter that ensilage does, while a third man complains that there is too much work connected with growing and harvesting them. As regards to the question of water. I have only to answer in the language of a certain Ontario Institute speaker who in reply to a similar objection stated "that it was durn good water."

As regards the question of dry matter, I may say that I am satisfied that the mere dry matter content of any feed is not the true measure of its feeding value. That the feeding value of root crops to an animal which is being fed largely upon hay and grain can no more be estimated by the amount of dry matter which the roots contain than can the dry matter of an apple be made the true measure of its feeding value to a labouring man who has been subsisting largely upon boiled potatoes and pork and beans.

As regard the labour connected with growing root crops, I am aware that this is considerable but the size of the yield that may be obtained from an acre of land in Alberta and the feeding value of the crop itself will amply repay all the labour that it may be found necessary to bestow upon them. I may say also that a great deal more hand work is being done by most farmers than is absolutely necessary. Under ordinary methods one of the most tedious parts of growing root crops is that of sowing

the seed and yet this can be done with machinery

Although I have found men in Alberta who have made a success of growing sugar beets and mangels, personally I have not been very successful in growing roots of this kind and what I have to say regarding root crops will apply especially to turnips and swedes. It has been my practice to sow these drills in about 36 inches apart in order that they may be cultivated with a horse cultivator. I close up the drill holes of my four horse drill leaving an opening for each sixth drill thereby spacing the rows 36 inches apart. I then take clean weed seeds or shriveled grain of some

kind and put it in an oven and parch it in order that it will not grow. I then let it cool and mix the turnip or swede seed in this roasted grain or weed seed and drill it as I have indicated. The cultivating is done with a horse cultivator and the only time the hoe is used is in thinning, and if a little care is exercised in the sowing,

the labour of thinning is not very great.

The old method of harvesting, I am aware, is labourious but it can be very greatly simplified. One of the best methods which I have seen is that of going over the patch with the hoe and cutting off the tops, then if the patch be not too wide going crossways with an ordinary two-horse rake and raking off the tops, then following with an ordinary harrow which has been weighted by means of a pole or rail and by lapping the harrow one half of its width the turnips will be turned out of the ground and nearly all of the dirt knocked off of them. They can then be readily picked up with an ordinary manure fork and thrown into a wagon and from there into the root cellar.

#### PROTEIN FEEDS.

The ordinary feeds grown in Alberta contain an abundance of carbohydrates or fat and sugar producing substances, therefore I need not dwell upon the necessity of supplying them but will draw your attention to the necessity of supplying proteins, which are generally deficient in the feeds supplied to our dairy cows. Bran is the substance which is used as the standard by which other protein feeds are measured but it has now reached a price in Alberta where it is very closely approaching the limit of economical feeding. At Edmonton we are paying \$22.00 a ton for bran at the present time. This can be paid only under exceptional circumstances and it cannot therefore be made a general and staple food on a dairy farm. Some kind of substitute is therefore necessary. What that shall be will depend very largely upon one's environment.

#### ALFALFA AND WHITE CLOVER.

In those parts of the province where alfalfa can be successfully grown the difficulty is practically solved as alfalfa contains almost the same amount of protein as does bran. In those parts of the province where alfalfa growing has not yet proved a success, the principal substitute has been green feed or oats cut in the green state. These provide a very good rough feed but they are by no means the best obtainable. There is, however, another plant that can be successfully grown in nearly all parts of Alberta and to which I desire to direct your attention. We who have lived in the East have become accustomed to holding it in more or less of contempt yet I think it is well worthy of being experimented with in Alberta parcontempt yet? I think it is well worthy of being experimented with in Anderda particularly in the bushy country and more especially in those districts where alfalfa growing has not yet been made a success. I refer to the white clover plant. We have all noticed it growing by the roadsides and along the railway tracks and we observe that it makes a much larger growth here than in the Fast. While I have not had experience in growing it for feeding or crop purposes, yet judging from the density of its growth and the height it attains, I have no doubt at all but that a single cutting of at least a ton and a half per acre can be grown in most parts of the central portion of Alberta. This I know is small when compared with the returns reported from alfalfa but the care and cost involved in growing it are also very much less. As to its feeding value I may say that I was somewhat surprised to notice a few days ago that the percentage of protein of the white clover is slightly greater than that of alfalfa and only a very little less than that of wheat bran.

There is another point which stands to the credit of the white clover and that is that it enters nicely into a rotation as it may be sown in a nurse crop and gives a good crop the following year. The seed is somewhat expensive at present but if it were more extensively sown there would be more people growing the seed and in time it would be obtained at a much less cost than at present. In the East it was our custom to consider it a nuisance and to separate it from the alsike and red clover seed as much as possible and throw it away. As I said before I have had no experience in growing white clover for a hay crop, but from what I know of its habits or at least from what I have seen of it in this province and from what we are told by scientists regarding its protein content, I think it is well worth experimenting with by the dairyman of Alberta particularly by those who have not as yet been

successful in growing that best of all legumes—alfalfa.

#### FIELD PEAS.

Another legume that is very popular in the Fast and which can be successfully grown here is the ordinary white field pea. Sown with oats and cut green it yields a large amount of fodder, and when properly cured it is much relished by stock of all kinds. In some sections of the province, the weather is somewhat uncertain during the haying season, and as it is difficult to cock pea and oat hay so as to make it turn water, some method other than that usually followed in curing hay must be

adopted.

We often hear men say that by placing alternate layers of green clover with dry straw we can make good hay out of both. I have had a little personal experience along that line and I can say that while I failed to make clover hay out of straw I did succeed in getting first class hay out of the green clover, and I feel certain that the same can be done with pea and oat fodder. It is at least worth giving a trial in a small way, particularly by those who are engaged in winter dairying and find it necessary to buy most of their nitrogenous feeds.

To recapitulate briefly the things with which the dairyman, particularly the man who is engaged in winter dairying, must provide his animals are sunlight, fresh air, pure water, succulent feeds and protein. The carbohydrates are sufficiently abundant in our native feeds for the use of dairy animals and for that reason they

need not be especially emphasized.

An animated discussion followed Mr. Stevens' address; Messrs. Pearson and Scott, dairy instructors, each spoke at some length relative to their observations through the country generally and gave particulars as to methods followed by some of the breeders who have cows entered in the Record of Performance Tests. Cows that make good in those tests have to be well handled.

Mr. P. Pallesen of Calgary also gave some interesting information as to the methods followed on the Pallesen dairy farm near Calgary. Pallesen Bros. have made a great success of winter

dairving.

### COLD STORAGE SERVICE.

At the forenoon session on January 5th the Dairy Commissioner explained the nature of the cold storage service offered by the department to the creameries and the conditions upon which butter would be received and stored. A letter covering this point was mailed to all interested parties and read as follows:

Our short term rate is 25 cents per 100 pounds of butter per month, or portion thereof, payable monthly, and applies in cases when only a portion of the butter output of a creamery is handled or when storage facilities are required only for a

part of the season.

Our season's rate applies to creameries who wish to make use of the cold storage for the handling of their entire butter output for the whole season, and is the same as charged to the butter from the creameries operated by the government in the province. The exact rate can not be determined until the close of the season but it will be in the neighbourhood of one-half cent per pound of butter. When that rate applies an advance charge of 25 cents per 100 pounds of butter will be made on all butter shipped out of storage each month and the balance will be payable when the rate has been ascertained at the close of the season.

Following is the service we offer, viz.:
(1) To accept delivery at the Calgary railway station of any creamery butter you may ship us for the purpose of storage, freight charges paid.

(2) To issue, upon demand, official negotiable warehouse receipts covering any or all of the butter received.

(3) To place and keep the butter in cold storage covered by insurance to the extent of 20 cents per pound.

(4) To deliver on your shipping instructions at the railway station any butter not covered by outstanding warehouse receipts. Outgoing railway freight charges to be arranged for by you or consignee.

We are prepared to receive butter at any time upon the above mentioned

conditions.

#### THE DAIRYMEN'S ACT.

After that he took up the discussion of the new sections of "The Dairymen's Act" with a view to having them generally understood by creamery operators.

Aside from the sanitary provisions the present Act establishes in sections 31 and 32 (office consolidation) standards for the test samples of milk and cream which is bought on the basis of its butter fat contents as determined by the Babcock test. The standard sample of milk is 17.6 cubic centimetres, and the standard sample of cream is 18 grammes. Hence, all creameries who have not yet done so will find it necessary to provide themselves with a delicate balance for weighing the samples of cream for the Babcock tester.

Another provision, section 33, requires composite samples of milk and cream made up of units which are proportionate to the

quantity of milk and cream from which they are taken.

Further, Sections 35 and 36 require that certain specified information is to be given upon the written statements which accompany the payments to patrons for milk or cream furnished to cheese factories and creameries.

It was shown that these and other provisions would go a long way towards eliminating that distrust and suspicion which is but too often in evidence between the patrons and the creameries. Confidence is the basis of all trade and any agency which will help to establish more confidence in our dairy trade, generally, should be welcomed by all parties concerned.

The question of cream grading was also discussed and is dea't with a some length elsewhere in this report. The principle of grading and paying a premium for quality was warmly endorsed by all

present who had adopted it in their creamery operations.

The afternoon session was opened with an address by Professor W. H. Elliott on the subject of the milking machine. The speaker exhibited one of the milkers and explained its mechanism to an interested audience. He readily answered numerous questions as to the economics of machine milking. Following is Professor Elliott's address:

#### THE B-L-K MILKING MACHINE.

The milking machine in use at the demonstration farm of the Canadian Pacific Railway at Strathmore, is one perfected by the D. H. Burrell Company, of Little Falls, New York. It is run on the vacuum system and appears to give as near perfect results as possible. We used this milking machine for three years in Montana and are well satisfied with it. In fact we are thoroughly convinced that the machine is the thing that is going to solve the great labour and drudgery problem of the dairy business. Once in a while we may find a cow that does not take kindly to the machine, yet nine out of every ten will milk fairly well with it. In comparing the milking machine with hand milking, we might say that if it were possible to get men who were excellent milkers then perhaps there might not be very much gained in the use of the machine, but as conditions are today and as we have to do with a great variety of inefficient help, the milking machine is certainly a boon to the dairyman. It is always ready for business and costs very little for upkeep. In the three years use at the Montana Agricultural College, the total expense for upkeep was less than \$1.25. In fact, there seems to be very little about the machine that is liable to get out of order.

was less than \$1.25. In fact, there seems to be very facts about the machine is liable to get out of order.

Notwithstanding the fact that the milking machine will do efficient work, the main point is to have a man who will properly handle the machine. After all, more depends upon the man than upon the machine. The milking machine will do the work if you will get the proper man to handle it. We would strongly recommend that in every case where it is thought desirable to instal the machine, that one of the best milkers should be sent to some place where a milking machine is in use so that he may have about two weeks' experience in handling the machine. A man who is successful as a hand milker will likely be efficient with the machine as he is apt to be one who studies the cows, knows the condition of each animal and knows exactly how each cow milks in each quarter. He must study the cow. He must bear all of these things in mind very clearly and must handle the machine just as carefully as he would handle the cow under a system of hand milking. The two great things in favour of the milking machine are cleanliness and labour saved.

Our man in the barn at the present time milks fifty cows in thirty-eight minutes, and with respect to cleanliness, it will be undersood, of course, that everything about the pail and teat cups is air tight, consequently no dust or dirt of any description can gain access to the milk. One of the main points is to keep the rubber tubing thoroughly cleaned. It is a comparatively simple matter to do this just before the milking operation stops. Get two pails of water, one lukewarm, with Wyandotte powder in it, and the other as hot as possible. With an extra stop cock in the passage, simply attach each pail to the power. Immerse the teat cups in the solution and then in the scalding water, thus these fluids are surged through the rubber and aid very materially in keeping it clean. Between each milking operation, the tubes are immersed in a carbolized solution of lime water, or still again, in a salt brine solution. This latter, we think, the simplest and perhaps as efficient

as any.

We find the cows take very kindly to the machine, and, in fact, if we are able to judge, seem to prefer it to hand milking. It would not pay to instal the machine with less than 25 cows, but with that number up to the very largest dairies, the milking machine comes to be very profitable. In our barn at the demonstration farm where it took six men last winter to care for the dairy stock, this winter we intend to do the work with three men, thus it will be clearly seen that in the labour saved during the coming winter we will practically pay for the complete installation of the milking machine. For a barn of 20 to 25 cows, three to four hundred dollars will instal the milking machine. In our barn an equipment to milk 100 cows cost us between eight and nine hundred dollars and, as I have already said, we will actually save the cost of this machine in one year's time with the elimination of practically half of our dairy barn help. After all is said and done, the main point is centered in the man who will operate the machine and a man of good ordinary common sense ought to be able to handle the machine in a short time.

For those who may be especially interested in the use of the machine, we might further add that our dairy barn is open at all times and we will indeed be glad to have any interested party come and spend a week with us to study the machine and acquaint himself fully with it. There is nothing complicated about it and a farmer would easily get the run of the machine in a week's time.

To further show our opinion of the milking machine, we might say that it is our intention to increase the dairy herd here until we are n ilking 200 cows. We hope to do this entirely by the machine and look for favourable results.

We will be glad to answer any questions that you may have to ask.

#### RESOLUTIONS.

The resolution committee submitted the following report, which was unanimously adopted:

1. Having heard with interest the address of the Honourable Minister of Agriculture in regard to the management of the so-called government creameries, we, the delegates here assembled, do wish to endorse his statement that each creamery association should pay its own way as we believe that an industry which has to receive a bonus of any kind is not in a healthy condition. We would point out, however, that when these smaller creameries were established, the patrons and shareholders were given to understand that the government would not charge more than four cents per pound for manufacturing butter exclusive of cream hauling, and if this agreement is suddenly terminated, it will mean a great hardship upon these patrons and shareholders, and we would further recommend that the provision in regard to these small creameries paying everything at the present time be not enforced, but that every case be taken upon its own merits, and an agreement made to cover each creamery individually, after all conditions have been investigated. We would recommend, however, that in regard to the establishment of new creameries, that different arrangements be entered into by the government, and that the patrons and shareholders of these new creameries be informed that if a creamery is established, such creamery must pay its own way from the commencement.

2. We hereby endorse the statement of the Honourable Minister of Agriculture, that the cold storage facilities at Calgary shall be open to all creameries, whether under government or private operation. We would recommend, however, that under no consideration should these facilities be granted for the storing of dairy butter, or for any produce except that manufactured by creameries or cheese factories authorized under the Dairymen's Act.

3. This convention wishes to further endorse the plan of the grading of butter and the payment for this butter upon a quality basis, and we recommend that the plan of grading be extended as far as possible, working towards the end, that, at some future time, all butter exported from Alberta shall be graded according to some recognized standard.

4. Having noticed that it is the intention of the government to establish five demonstration farms in the province during the present year, and believing it is the intention of the government that these farms shall be for the purpose of demonstrating the best methods of mixed farming, we do strongly recommend that arrangements be made by the government to bring over a small herd of the Danish red cattle and place them upon one of these farms, so that the value of this breed for dairy purposes, and their adaptability to the climatic conditions of this province can be fully demonstrated.

5. Whereas it is a well-known fact that a large quantity of dairy butter sold over the counters in the stores is under weight, and the Dominion laws governing same do not seem to be well known, we therefore strongly recommend to the Honourable the Minister of Inland Revenue, that steps be taken to make this Act better

known and to have the provisions of same more rigidly enforced.

6. That this convention requests the Minister of Agriculture to arrange for the publication of the proceedings of this convention, together with the charts shown, and that a copy of the proceedings be forwarded to the patrons of all creameries in Alberta.
7. This convention recommends that the regulations applying to entire animals

running at large be so amended, that bulls will not be permitted to run at large in

acknowledged dairy districts.

8. Whereas the present system of allotting shares has resulted in shares being issued to former patrons who have left the district, and these shares are now being carried on the books of the associations, thereby causing a large amount of unnecessary labour, we do hereby request the Minister of Agriculture to bring in an amendment to the Dairymen's Act giving associations power to cancel any shares whether fully paid up or otherwise, in the event of the said shareholders not registering their proper address within five years after the allotting of said shares, and after adver-tising the names of said absentee shareholders at least three times in a local news-

tising the names of said absentee shareholders at least three times in a local newspaper and once in the official Gazette of the province.

9. That this convention place on record our appreciation of the splendid services rendered to the dairy industry of the province by the Honourable Duncan Marshall, Minister of Agriculture, and his efficient staff, more especially Mr. C. Marker, Dairy Commissioner, and we wish specially to emphasize the work done in raising the standard of Alberta's butter, providing efficient cold storage facilities, and for the marked step in advance by the legislation relating to creameries and cheese factories which was recently introduced into the legislature by the minister and which is now law.

ister, and which is now law.

A complimentary banquet was given by the citizens of Innisfail at the Alberta Hotel in honour of the visiting delegates to the convention. The entertainment and hospitality was all that could be desired. Several excellent speeches were made, though to record them here would be foreign to the purpose of this report. event took place, however, which was the culminating point of a year's faithful labour and effort on the part of the buttermakers who had participated in the season's Educational Butter Scoring Contest, namely: The announcement of the results of the contest and the presentation of the prizes by the Minister of Agriculture. The nature of the contest was described in last year's report of the department and the winners of the coveted honours for the season of 1910 were:

Trophy and Gold Medal, D. Morkeberg, Markerville.
Silver Medals: J. J. Skalitzky, Viking; E. W. Parker, Ferry
Bank; A. A. Munro, Rimbey, and M. L. Campbell, Red Deer.

The concluding session, held in the forenoon of the sixth, was devoted chiefly to a general review of the addresses and discussions of the former sessions so as to bring the main points into clearer outline and focus. They will all help to shed a "light on the path".

Unanimous votes of thanks were tendered the citizens of Innis-

fail, the chairman and the press.

AGREEMENTS BETWEEN CREAMERIES AND THE DEPARTMENT FOR MARKETING OF BUTTER.

Following are copies of the agreements that were entered into between the managements of creameries and the department for the marketing of butter during the year of 1911. Except that the "grading clause" (section 2) is added to the 1911 agreements Nos. 1 and 2 are the same as the previous year's agreements Nos. 3 and 4 respectively. Agreement No. 3 is for privately operated creameries.

### (Agreement No. 1.)

#### MEMORANDUM OF AGREEMENT.

BETWEEN:

THE DAIRY COMMISSIONER, ACTING FOR THE DEPARTMENT OF AGRICULTURE FOR THE PROVINCE OF ALBERTA

### and

THE.....ASSOCIATION

1. The Dairy Commissioner agrees, for the period of one year from May 1st, 1911, to market the butter shipped to him by the association for that purpose to the best of his judgment and ability and to pay the association the net proceeds

realized from the sales of such butter after deducting:

(1) The cost of railway freight paid on the butter at Calgary.

(2) The cost of packages and other supplies furnished by him to the said association for use in the creamery.

(3) The pro rata cost of handling the butter in cold storage at Calgary until it is finally disposed of.

(4) The charge of one cent per pound of butter manufactured to be applied

as follows: (a) On the repayment of any loan heretofore obtained by the association

from the government.

(b) In payment of plant and equipment supplied or which heretofore may have been supplied and installed by the government the property in which said plant and equipment is to remain in the government till it is paid for.

(5) A further charge to be applied:
(a) Towards the payment of an annual rental for the plant and equipment furnished or heretofore furnished by the government reckoned at the rate of three per cent. of such portion of the cost of the plant and equipment as is unpaid, such rental to be computed on the first day of January following the year in which such plant and equipment or any portion thereof is installed, and on each first day of January subsequent thereto (or subsequent to the year in which such plant and equipment has been installed if it has been installed prior to the date hereof) but no deduction shall be made from such rental by reason of the receipt of the whole or any part of the purchase price of such plant and equipment before the end of the year in which the rental is so computed.

(b) Towards the payment of the interest upon loans made by the govern-

ment upon mortgage security or otherwise.

2. The Dairy Commissioner agrees to grade and classify according to its marketable quality all the butter received into the government cold storage for disposal during the season of 1911, to pay a premium of two (2) cents per pound on all butter graded as "firsts" and to maintain a uniform standard for grading.

3. The Dairy Commissioner agrees to pay the association on each shipment of butter received by him from the association such advances as he may estimate to be about eighty per cent. of its selling value and to pay the balance due on such

sales after the season's butter has been disposed of.

4. The Dairy Commissioner agrees to insure the butter against loss by fire only while contained in the government storage building at Calgary as trustee for and on behalf of the association to the amount of two-thirds of its estimated market value but the creamery buildings, premises and plant are to be insured by the association on its own behalf and the Department of Agriculture is not to accept or have any responsibility or liability in that connection. In any case in which the

association is indebted to the government the premium receipt or any renewal receipts for such insurance shall be sent to the Dairy Commissioner.

5. The association agrees to make provision for the issuing of paid up shares to the persons supplying cream to the creamery, in proportion to the amounts paid in by them severally to the loan fund as set forth in sub-section 4 of section 1 of this agreement.

6. The association agrees to employ a properly qualified buttermaker, approved by the Dairy Commissioner, to accept and carry into effect such directions as the Dairy Commissioner may give from time to time respecting the delivery of cream to the creamery, the details of manufacturing and the packing and the shipping of the butter to be sold by him.

Witness: President of the Association. Secretary of the Association. Witness: Dairy Commissioner. Witness:

(Agreement No. 2.)

### MEMORANDUM OF AGREEMENT.

BETWEEN:

THE DAIRY COMMISSIONER, ACTING FOR THE DEPARTMENT OF AGRICULTURE FOR THE PROVINCE OF ALBERTA

and

THE.....ASSOCIATION.

1. The Dairy Commissioner agrees for the period of one year from May 1, 1911, to market the butter shipped to him by the association for that purpose to the best of his judgment and ability and to pay the association the net proceeds

to the best of his judgment and ability and to pay the association the net proceeds realized from the sales of such butter after deducting:

(1) The cost of railway freight paid on the butter at Calgary.

(2) The cost of packages and other supplies furnished by him to the said association for use in the creamery.

(3) The pro rata cost of handling the butter in cold storage at Calgary until it is finally disposed of.

2. The Dairy Commissioner agrees to grade and classify according to its marketable quality all the butter received into the government cold storage for disposal during the season of 1911, to pay a premium of two (2) cents per pound on all butter. during the season of 1911, to pay a premium of two (2) cents per pound on all butter

graded as "firsts" and to maintain a uniform standard for grading.

3. The Dairy Commissioner agrees to pay the association on each shipment of butter received by him from the association such advances as he may estimate to be about eighty per cent. of its selling value, and to pay the balance due on such sales after the season's butter has been disposed of.

4. The Dairy Commissioner agrees to insure the butter against loss by fire only while contained in the cold storage building at Calgary as trustee for and on behalf of the association to the amount of two-thirds of its estimated market value.

5. The association agrees to employ a properly qualified buttermaker, approved

by the Dairy Commissioner, and to accept and carry into effect such directions as the Dairy Commissioner may give from time to time respecting the delivery of cream to the creamery, the details of the manufacturing, the packing and the shipping of the butter to be sold by him.

....this......day of President of the Association. Witness: Witness: Secretary of the Association. Witness: Dairy Commissioner.

(Agreement No. 3.)

### MEMORANDUM OF AGREEMENT.

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THE DAIRY COMMISSIONER, ACTING FOR THE DEPARTMENT OF AGRICULTURE FOR THE PROVINCE OF ALBERTA

#### and

- 1. The Dairy Commissioner agrees for the period of one year from March 1st, 1911, to market the butter shipped to him by for that purpose to the best of his judgment and ability and to pay..... the net proceeds realized from the sales of such butter after deducting:

  (1) The cost of railway freight paid on the butter at Calgary.

  (2) The cost of packages and other supplies furnished by him to the
- 2. The Dairy Commissioner agrees to grade and classify according to its marketable quality all the butter received into the government cold storage for dis-
- balance due on such sales after the season's butter has been disposed of.
- 4. The Dairy Commissioner agrees to insure the butter against loss by fire only while contained in the cold storage building at Calgary as trustee for, and on behalf of ......, to the amount of two-thirds of its estimated market value.
- 5. . . . . . . . . . agrees to employ a properly qualified buttermaker, approved by the Dairy Commissioner, and to accept and carry into effect such directions as the Dairy Commissioner may give from time to time respecting the delivery of cream to the creamery, the details of the manufacturing, the packing and the shipping of the butter to be sold by him.

Witness:

Witness:

Dairy Commissioner.

## VII.—Dairy School at Innisfail.

While it was arranged to have short courses for creamery buttermakers follow the convention at Innisfail it was found necessary to postpone the second course on account of severe weather conditions and difficulty in securing suitable and sufficient milk and cream for the practical work.

The following circular sent to all the creameries and buttermakers in the province of whom we had a record, gives an outline

of the work of the course:

### SHORT COURSE IN DAIRYING, ALBERTA.

The Alberta Department of Agriculture will conduct a two weeks' course of instruction in creamery buttermaking and management at Innisfail, Alberta, commencing on Monday afternoon, the 3rd of April.

A general invitation is extended to creamery buttermakers, secretaries and

managers of the province to take advantage of the services of this course. Following is an outline of the work that will be taken up.

(a) In the class room: Lectures will be given on chemistry and bacteriology in relation to dairying; the principle underlying sanitary milk and cream production; testing and butter making; creamery book-keeping and management; markets and marketing of dairy products; dairy herd management, etc. The school library contains text books and a number of agricultural and dairy

journals for the use of the students in attendance.

(b) Practical work: The Innisfail creamery management has generously placed the creamery, equipment and cream supply at the disposal of the department for dairy school purposes and practical work will be carried on in the following departments:

(1) Testing room: The testing of milk and cream for butter fat and acidity. and the testing of butter for moisture and salt contents. Complete instructions will be given in the use of the Babcock test; the acidemeter and alkaline tests; the Mitchell-Walker, Geldard, Farrington and Irish moisture tests, and in the use of a test for determining the

salt contents of butter.

(2) Buttermaking room: An ample supply of milk and cream is assured, and practical instructions will be given in this department in the pasteurization of milk and cream by the Reid and the Farrington pasteurizers; in preparing pure culture ferments for cream ripening; in the grading and scoring of cream and butter; in churning, working and packing butter.

(3) Boiler room: The care and handling of boilers and engines, pipe-fitting, soldering and general repair work will be fully explained

and demonstrated by the instructor in charge.

(4) The book-keeping department will present a complete yet simple accounting system for creameries, including patrons' accounts, stock book, cash and general ledger, specimen forms of these will be given to each student so he may become familiar with all details.

Buttermakers are invited to attend the whole course, but if this be impossible, anyone attending for a shorter time will get the greatest possible benefit from the time spent. A detailed programme of lectures, etc., will be mailed upon application to the Dairy Commissioner at Calgary.

The students will be expected to take part in the practical work under the direction of the instructor in charge of each department, or of any department

in which they may wish to specialize.

The instructors of the school and their subjects are as follows, viz.:

The Dairy Commissioner, director of the school, deals with creamery manage-

ment and economics, markets, dairy legislation, etc.

Prof. A. Lehmann, University of Alberta: Chemistry in relation to dairying.

Dr. D. G. Revell, Provincial Bacteriologist: Bacteriology in relation to dairying.

Mr. H. S. Pearson, Provincial Dairy Instructor: Buttermarking and pasteurization.

Mr. George W. Scott, Provincial Dairy Instructor: Testing of milk and its

products.

Mr. J. R. Flan, Engineer: Boiler and engine, etc.

Mr. G. H. Hutton, Superintendent Experimental Farm, Lacombe: Dairy herd management.

Mr. F. W. Underwood, Accountant, Dairy Commissioner's Branch: Book-

keeping.

The course was a success in every way. Nineteen buttermakers and creamery managers attended lectures and practical work, some throughout the course and others for a shorter time to take special subjects.

We are under special obligation to Drs. Revell and Lehmann for the splendid assistance they rendered to the staff of this branch

in making the course as inclusive and useful as possible.

We are indebted also to the school board and creamery association of Innisfail for the use of class room in the Poplar Street school and for the use of the creamery for the practical work of the course.

### VIII.—DAIRY INSTRUCTION AND INSPECTION.

### SHORT COURSE SCHOOLS IN AGRICULTURE.

A series of lectures and practical demonstrations in home dairy work were given at each of the schools conducted by the department at Strathmore, Macleod, Innisfail and Vermilion in February and March, by the undersigned and by the dairy instructors. It was

very gratifying to note the interest with which the students in attendance followed the work. While it was impossible to properly cover the subject in the time allotted there is no doubt that the schools had the effect of whetting the appetites of a good many students for "more light." This they can and will find through study and observation.

# CREAMERY INSTRUCTION AND INSPECTION.

During the year H. S. Pearson paid 59 visits to creameries in the district of Red Deer and north and Geo. W. Scott made 52 visits to creameries south of Red Deer. The instructors both report that their relation with and work among the creamery buttermakers has been most cordial and pleasant and that there is a marked and uniform improvement in the sanitary condition of the creameries as well as in the quality of their butter production for which due credit is given to the buttermakers in charge.

Reference has already been made to the amendments to "The Dairymen's Act" and the appointment of dairy inspectors. In order to secure uniformity and continuity of record in the reports of the inspectors the following score card has been specially prepared

for their use:



AYRSHIRE COWS ON DEMONSTRATION FARM, OLDS.



Report\_Covering General Management, Sanitary Condition, Correctness, Thoroughness, Neatness, Order.

#### Score.

| Excellent. |  |  |  |  |  |  |  |  |  |  |  |  | 4 | points |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|---|--------|
| Good       |  |  |  |  |  |  |  |  |  |  |  |  | 3 | и      |
| Poor       |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 16     |
| Very poor  |  |  |  |  |  |  |  |  |  |  |  |  | 0 | 46     |

| NAME                          | SCORE | REMARKS                                 |
|-------------------------------|-------|---|
| Boiler and Engine—            |       |   |
| 1. Boiler and connections     |       |   |
| 4. Engine and connections     | 1     |   |
| 3. General                    |       |   |
|                               |       |   |
| BUTTERMAKING ROOM—            |       |   |
| 5 Floor and mutter            |       |   |
| 6 Churne vets eta             |       | ***********                             |
| 7. Weighing scales            | 1     |   |
| 8. B.M. pump and connections  |       | *************                           |
| 9. Transp. cans and tinware.  |       |   |
| 10. Preparation of packages   |       |   |
| 11. General                   |       |   |
| Mold?Flies?                   |       |   |
|                               |       |   |
| Office—                       |       |   |
| 12. Stock books and records   |       |   |
| 13. General                   |       |   |
|                               |       |   |
| SUPPLIES STORAGE—             |       |   |
| Mold?                         |       |   |
| MOIG1                         |       | * |
| Cold Storage—                 |       |   |
| 15 Interior surface           |       |   |
| 16. Ice tubes and troughs     |       |   |
| Cold air circulation          |       |   |
| 17. General                   |       | ************                            |
| Mold?Temp°F.                  |       |   |
|                               |       |   |
| WATER SUPPLY—                 |       |   |
| 18. Well and surroundings     |       |   |
| 19. Pump and connections      |       | **********                              |
| 20. Water storage             |       |   |
| Temp. water in tank°F.        |       |   |
|                               |       |   |
| TESTING EQUIPMENT—            |       |   |
| 21. Machine and fittings      |       | · · · · · · · · · · · · · · · · · · ·   |
| 23. Test scales.              |       |   |
| 20. 200 50405,                |       |   |
| Drainage, Surroundings—       |       |   |
| 24. General                   |       |   |
| 25. General                   |       |   |
|                               |       |   |
| Total                         |       |   |
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| Copy of this report handed to |       |   |
| Date of inspection            |       |   |
|                               |       | ******************************          |
|                               |       | 70 . 7 .                                |

REFERRING TO ITEMS IN THE ATTACHED FORM ENTITLED "DAIRY INSPECTION."

Full scores are to be given only for conditions and methods as outlined in the following:

1. Boiler properly cared for, flues kept clear of soot, pipe connections and steam valves tight.

2. Steam engine working smoothly, kept clean of grit, dust, waste oil and condensed steam and free of rust. Shafting clean, pulleys and belts in good repair.

3. Tools and fittings, oil and other supplies properly and conveniently arranged and stored; absence of useless articles or rubbish in the boiler room.

4. Walls, ceiling and posts neatly painted or whitewashed, windows and doors clean; absence of mold.

5. Floor in good condition, gutter tight and properly connected to drain.
6. Churns and other wooden utensils sweet and clean, vats likewise and suitably covered to protect their contents. Metal parts on churn, butter printing machine, etc., free of rust or grease.

7. Weighing scales accurate in balance, free of rust and verdigris.

8. Butter milk pump, connections and tank kept clean and free from offensive odors.

9. Transportation cans and cream haulers' equipment properly cleaned before leaving the creamery. Tinware bright and free from rust. Cream haulers' conveyances sanitary.

10. All parchment liners and wrappers prepared by being immersed for at least six hours in a solution of salt, reboiled each time fresh papers are put in; butter box material to receive a thin even coating of paraffin wax and to be carefully nailed. All boxes to be thoroughly rinsed out and lined before using.

nailed. All boxes to be thoroughly rinsed out and lined before using.

11. General neatness and order, pure atmosphere, absence of useless articles or rubbish. (Equipment not in use should be stored elsewhere and in a dry place.)

12. Stock books covering butter production and supplies and other records required by law, neatly kept and up-to-date. Statements issued to patrons in accordance with the requirements of section 35 of The Dairymen's Act (Office Consolidation). All records, business correspondence, slips, stubs and printed forms properly arranged and filed for ready reference. Office supplies properly arranged and stored so as to minimize waste and to be cenvenient of access.

13. An office is a place provided for the dispatch of business and should look

the part.

14. Dry wholesome atmosphere, well ventilated. Supplies arranged in an orderly manner as to sizes and kinds, easy of access and check. Absence of mold and mustiness.

15. Floor, walls and ceiling neatly whitewashed or varnished. Doors and windows clean and capable of being closed tightly to save cooling material.

16. Ice tubes and troughs kept clear of sawdust or straw (either of these packing materials are liable to become musty and ill smelling if allowed to accumulate in a wet condition.) In a cold air circulation system the air ducts should be fitted with slides.

17. Provision made for keeping the butter packages off the floor and for the circulation of cold air around the individual packages (this can be accomplished by the use of 1 inch by 2 inch wooden strips placed under each row of boxes, or by stacking the packages so as to expose the greatest possible surface to the action of the cold air). Purity and dryness of atmosphere and absence of mold.

18. Absence of all conditions and matter which may pollute the water in the

19. Free from leakage, smooth running and generally in good order.

20. Storage tank dramed and cleaned regularly and sufficiently often to avoid contamination of the water while stored in it. Tank kept covered to prevent animals or flies, dust and other foreign matter from getting into it.

21. Centrifugal machine in good repair and smooth working order. Fittings tight.

22. Verified and stamped glassware for the Babcock test, thoroughly cleaned inside and out. Sample jars likewise cleaned, drained and dried in pure air.

23. To be kept thoroughly clean and bright and delicately balanced.

24. Drains and traps properly connected and regularly flushed. Absence of offensive odors from drainage in and around the creamery, or under the floors.

25. Approaches and immediate surroundings neat and orderly. Absence of

rubbish and stagnant pools.

Dairy Commissioner's Office, Calgary, Alta., April 26, 1911.

At the opening of the buttermaking season the following letter was mailed to the management and buttermaker of each creamery in the province:

We enclose for your information a copy of the form which will be used by the dairy inspectors for recording and reporting the sanitary and other conditions, and methods, found at the creameries which they visit from time to time. Attached to the form you will find explanatory notes briefly outlining the conditions and methods for which the full score of "excellent" (four points) may be given. The numbered paragraphs in the "notes" have reference to the items bearing the corresponding numbers on the inspection form.

It is true that, strictly speaking, a few of the items included in the form such as, for instance, I, 2 and a few others have no special bearing on the sanitary condition of a creamery but it is equally true that they all have a direct bearing upon efficient and economical management, the aim of every well regulated business.

efficient and economical management, the aim of every well regulated business. The inspector will be pleased to go over the whole matter with you when he calls and explain any point that may not be quite clear to you in connection with the inspection report form and accompanying notes.

While the dairy inspectors are charged with the duty of seeing the provisions of the Dairymen's Act complied with yet we wish it to be distinctly understood that their main work will be along advisory lines. You are invited to take full advantage of their phase of the phase o advantage of that phase of our work either by correspondence or by personal consultation whenever an opportunity offers.

Faithfully yours, C. Marker,

Dairy Commissioner.

The form for the inspector's report was prepared with the object of making it (1) inclusive, (2) concise and (3) easy for comparison.

Inclusive, so as to cover the main phases of the inside management of a creamery and kindred establishment. A careful and systematic inspection is necessary from time to time in a creamery and, for that matter, in any plant where food products are prepared and handled. The person in charge should on his own account make a careful and thorough inspection of his premises, plant and stock of supplies at least once a week and "put his house in order."

Concise, so as to show the whole record of the inspection on a page of foolscap paper.

Easy for comparison, in that the numerical values lend themselves better to comparison of totals or items from one inspection to another than do written "awards". The scores indicate at a glance, also, progress or retrogression.

It must be stated here, however, that no attempt has been made to indicate by mere arbitrary numbers the relative value or importance of the several headings from an economic or sanitary standpoint, as that would clearly be a matter of individual judgment and, as such, subject to a variation of opinions. The numerical values are intended merely to express in a concise form the conditions as found at the time of inspection.

In making out his report of the conditions as found at a given creamery the inspector considers in their appropriate connection the following factors: General management, sanitary condition, correctness, thoroughness, neatness and order.

He records in the "score" column the number which represents the conditions as found under each heading according to the fourpoint scale shown in the upper right hand corner of the report form. noting under "remarks" the principal defects found. These are afterwards summarized under "recommendations" and a signed copy of the report left with the manager of the creamery in whose presence the inspection is generally made and the various points discussed.

#### IX.—Exhibition Work.

During the year the undersigned and the dairy instructors attended by special request the following exhibitions and placed the awards in the dairy classes, viz.:

Geo. W. Scott at Innisfail, Trochu, Pincher Creek, Milnerton, Bowden, Didsbury and Provost.
H. S. Pearson at Camrose.

C. Marker at Winnipeg and Regina.

The working dairy and the dairy competition at the Calgary Industrial Exhibition were conducted by the provincial dairy staff as in former years, at the request of the management.

#### X.—Public Meetings.

Special dairy meetings were attended and addressed as follows during the year:

By H. S. Pearson, Dairy Instructor, at Daysland, Wetaskiwin,

Conjuring Creek and Meeting Creek.

By Geo. W. Scott, Dairy Instructor, at Bottrel and Elkton. By C. Marker at Ferry Bank, Earlville, Ryley, Viking and Nanton.

These meetings were held under the auspices of the local creameries and were well attended.

#### XI.—Correspondence.

Three thousand two hundred and seventy-six communications were received at this office during the year and 3,774 sent out. Since the change was made in the local management of the government creameries there has not been so much correspondence touching purely local creamery matters. There has been a considerable increase, however, in the correspondence from points outside as well as inside the province calling for information regarding the dairy industry generally and about specific phases of it.

#### XII.—ACKNOWLEDGMENTS.

I am pleased to take this opportunity to acknowledge the pleasant and cordial relations existing between the dairy operators of the province with whom the various services of this branch have come into contact and to commend the faithful, conscientious work done by the members of the staff in the field and in the office. They have individually shown a real personal interest and pride in the performance of their various duties towards the department and the public.

The agricultural press and the local daily and weekly newspapers during the past year have devoted generously of their space to the discussion of matters related directly or indirectly to the development of the dairy industry and on that account alone richly deserve the thanks and appreciation of the dairyman, whether he be "the man beside the cow" or an official in the public service.

#### C. MARKER,

Dairy Commissioner.

# 3.—REPORT OF THE SUPERINTENDENT OF THE SEED AND WEED BRANCH.

SIR,—I have the honour to submit herewith my annual report

as Superintendent of the Seed and Weed Branch.

During the months of December and January I attended the following institute meetings and seed fairs assisting in judging the grain and giving an address on "The Eradication of Noxious Weeds," at each meeting.

|                        | P | LA | 1( | Œ | 1 |  |  |  |   |  |    |  |  |  | ľ | V.A | Ŋ | ľ | F | æ | OF    | MEE          | TÌNO | ž   |
|------------------------|---|----|----|---|---|--|--|--|---|--|----|--|--|--|---|-----|---|---|---|---|-------|--------------|------|-----|
| Cardston<br>Magrath    |   |    |    |   |   |  |  |  |   |  |    |  |  |  |   |     |   |   |   |   | Seed  | fair         |      |     |
| Raymond                |   |    |    |   |   |  |  |  |   |  |    |  |  |  |   |     |   |   |   |   |       | 44           |      |     |
| Macleod                |   |    |    |   |   |  |  |  | · |  |    |  |  |  |   |     |   |   |   |   |       | 16           |      |     |
| Pincher Creel<br>Taber |   |    |    |   |   |  |  |  |   |  |    |  |  |  |   |     |   |   |   |   |       |              |      |     |
| Medicine Hat           |   |    |    |   |   |  |  |  |   |  |    |  |  |  |   |     |   |   |   |   |       | 44           |      |     |
| Didsbury               |   |    |    |   |   |  |  |  |   |  |    |  |  |  |   |     |   |   |   |   |       | 66           |      |     |
| Olds<br>Bowden         |   |    |    |   |   |  |  |  |   |  |    |  |  |  |   |     |   |   |   |   |       | 44           |      |     |
| Innisfail              |   |    |    |   |   |  |  |  |   |  |    |  |  |  |   |     |   |   |   |   |       | 61           |      |     |
| Three Hills            |   |    |    |   |   |  |  |  |   |  |    |  |  |  |   |     |   |   |   |   |       | 44           |      |     |
| Stony Plain.           |   |    |    |   |   |  |  |  |   |  |    |  |  |  |   |     |   |   |   |   | matit | es<br>Franko | M    | .:  |
| Provost                |   |    |    |   |   |  |  |  |   |  |    |  |  |  |   |     |   |   |   |   |       | "            | mee  | ung |
| Hardisty               |   |    |    |   |   |  |  |  |   |  | ı. |  |  |  |   |     |   |   |   |   |       | ee           |      |     |
| Daysland               |   |    |    |   |   |  |  |  |   |  |    |  |  |  |   |     |   |   |   |   |       | u            |      |     |
| Sedgewick              |   |    |    |   |   |  |  |  |   |  |    |  |  |  |   |     |   |   |   |   |       |              |      |     |

Mounted specimens of noxious weeds were displayed at the above meetings for the inspection of those present. The farmers showed marked interest in examining the different weeds, and took an active part in discussing the methods of eradication. A large number seemed to be unaware of the serious nature of some of the weeds that are being distributed over Alberta. Undoubtedly a great deal of good can be done in this way for if the farmers were familiar with the more serious weeds, when they are just getting a foothold, it would be a comparatively easy matter to hold them in check or entirely eradicate them.

During the greater part of February, and the first part of March I acted as instructor at the short course schools held at Strathmore, February 6th, 1911; Macleod, February 13th to 25th; Vermilion, February 20th to March 4th; and Innisfail, February 27th to March

11th.

#### PREVALENT WEEDS.

During the season of 1910 it was found that the weed inspectors' districts were too large, it being impossible for the local inspectors to look after their districts in an efficient manner. In view of this, it was decided to increase the number of districts from 33 to 50. The districts were greatly reduced in size in Southern Alberta where large areas of valuable land are badly infested with tumbling mustard, hare's ear mustard, and stinkweed. These weeds are only found in central and northern Alberta to a limited extent. A very persistent fight has been made against them this year, not only to prevent their spread north, but to improve conditions where they already existed.

Inspectors in many parts of Southern Alberta were put to work on the first day of May, I would strongly advise having them started in future, not later than the first part of April in order to successfully combat the above mentioned weeds, which are winter annuals, starting like fall wheat, in the autumn and living through the winter ready to commence a vigourous growth in the early spring. The inspectors should be on the ground before any seeding is done, to prevent careless farmers from drilling in their seed through these weeds which are already deeply rooted in the soil. Grain seeded under these conditions stands absolutely no chance of producing a paying crop and is a serious menace to the surrounding country. There are hundreds of acres of land seeded every year under the above conditions. The weed inspectors prevented a great deal of land from being seeded in this manner during the past spring but were unable to get over their territory in time to prevent it all.

Where these winter annuals are at all prevalent, fall wheat should not be sown as these weeds are so deeply rooted by spring that it is impossible to destroy them by harrowing the wheat. Land badly infested should be summer-fallowed with thorough cultivation throughout the summer and spring grain grown on the land the following season, harrowing the grain as soon as it is up to prevent

the growth of weeds.

The most serious weeds in central and northern Alberta are wild mustard, stinkweed, Canada thistle and ball mustard. Wild mustard is a persistent annual, having erect branching stems covered with fine hairs, the lower leaves being stalked and quite deeply indented; flowers a brighter yellow that other members of the mustard family. The seeds are smooth, spherical and of a very oily nature

which makes them very strong in vitality.

Stinkweed, an annual and winter annual, is a most aggressive enemy of the grain grower. Plants that get a start in the autumn will live without injury throughout the winter and ripen their seeds very early in the spring. The plant is a bright green colour with clear white flowers one-eighth of an inch across. The pods are winged and notched at the top, each containing from eight to sixteen brown seeds. The surface of the seeds have on each face five or six circular lines starting at the basal scar and running around a central groove. This plant multiplies very rapidly and will soon choke out a grain crop and take possession of the land.

Land that is badly infested with these weeds should be thoroughly summer-fallowed. If the infested area is large, it would be advisable to seed the greater portion of it to grass and summer-fallow a portion at a time, being particular to do the work well, not allowing any of the weeds to get so large that the harrow will not completely

destroy them.

In the case of stinkweed, be sure and cut the grass on the portion seeded down a number of times the first season as this weed will mature quite early. Do not allow it to reach the pod stage before cutting, as the plant will contain nutriment sufficient at that time to ripen the seeds. As soon as all the seed within a couple of inches of the surface have germinated you will not be bothered with stinkweed as the seed will not germinate when below this depth. However, it will retain its vitality and will grow when brought to the surface by cultivation.

Harrowing grain infested with wild mustard after the grain is nicely started will destroy the young plants. This method will also destroy stinkweed of spring growth, but will not affect the

plants that have started the previous fall.

Canada thistle is a persistent perennial, with deep running rootstalks, the leaves are dark green in colour, waved and very prickly, flowers purplish pink in colour. This weed is quite commonly mistaken for the prairie bull thistle by those unfamiliar with the two weeds. The distinguishing features between the prairie bull thistle and the Canada thistle are that the prairie bull thistle has white woolly leaves and stems and the flower heads are much The Canada thistle is a very persistent enemy of the farmer. It propogates both by seeds and rootstalks which spread very rapidly and send up new shoots and flowering stems. It is a vigorous grower and if not properly checked will soon crowd out a crop. If the Canada thistle is only present in small patches they can be smothered out by covering the patches deeply with a mixture of straw and Where the infested area is large, allow the plants to grow until they are in the bud stage and then plow deeply. Be sure to turn the plants well under. By allowing the weeds to reach the bud stage, the roots will become somewhat exhausted of food material and are in a weakened condition. Cultivate with a sharp sheared cultivator at intervals each time new stems are thrown up thus weakening the roots of the plants. If this method of cultivation is followed up thoroughly, the Canada thistle will soon disappear.

Where scattering plants appear in the grain field they should be cut out with a spud hoe. Time spent in this way will give good returns. The farmer should always be on the alert for new weeds

and destroy them before they increase in number.

#### SPRAYING MUSTARD WITH CHEMICALS.

Repeated tests at the various experiment stations in the United States and Canada have proved beyond doubt that solutions of bluestone (blue vitrol or copper sulphate) or of copperas of iron sulphate can be used successfully to destroy wild mustard in cereal crops without injury to the growing grain. The results of the majority of experiments would seem to indicate that iron sulphate is on the whole more satisfactory for this purpose than copper sulphate, besides being somewhat less expensive.

Owing to the large area contained in the majority of grain fields in this province the department has hesitated to suggest spraying as a practical remedy for the destruction of mustard. Hand pulling and proper methods of cultivation such as harrowing the fields badly infested when the grain is small, have proven fairly effective and it has been found that the more progressive farmers are readily following this system. In very bad cases, summer-fallowing has

been resorted to.

In cases where fields are badly infested, many farmers have felt the need for some method which would destroy practically all the mustard plants and still give them the use of the land. It was thought that spraying would fill the bill as a successful remedy in such cases.

Mustard spraying can be successfully done with a hand sprayer attached to a forty gallon barrel, or any sprayer which will throw a fairly fine spray forcibly upon the plants. It was thought more practicable to use a power outfit for this purpose in connection with the demonstrations conducted by this department. The outfit purchased has a 100 gallon tank and pump, mounted on two wheels, and power for pumping is generated by a gearing attached to the wheels. By means of an air tank a pressure of 100 pounds was kept up continuously. A high pressure is necessary in order to force the spray through the leaves of the grain upon the leaves of

the mustard plants. The spray was distributed through a hollow tube 12 feet in length with nozzles attached 2 feet apart along the

entire length of the rod.

A 20 per cent. sloution of iron sulphate was used. This was made by mixing 80 pounds of iron sulphate with 40 gallons of water. A stronger solution than this is liable to injure the crop. If copper sulphate is used a two per cent. solution (one pound copper sulphate to five gallons of water) is sufficiently strong.

Spraying should be done on a bright sunny day when the young mustard plants are well up and just about to come into flower. If the solution is applied too late,—for instance if the seed pods have been formed—the tougher stalks will not be entirely killed, a few seeds will be produced and the results will not be entirely satis-

factory.

The spraying demonstration initiated by this department was held at Olds under the supervision of Mr. H. W. Scott, at that time manager of the demonstration farm in that place. A large field of oats on an adjoining farm, badly infested with both wild and ball mustard gave an excellent opportunity to demonstrate the effects of spraying. This field was divided into plots. A strip of several acres down one side of the field was sprayed and an adjoining strip was left unsprayed, and then another strip was sprayed. In this manner the results of the spraying were most strikingly demonstrated. Though the grain was very rank and the mustard plants rather far advanced the mustard was almost entirely destroyed in the sprayed plots, except in cases where the pods were developed, while in portions of the unsprayed plots, the mustard developed to such an extent as to choke out the crop almost entirely. Great interest was manifested in the demonstration by the farmers living in the vicinity throughout the season.

Though no experiments have ever been conducted, so far as I have been able to find out, as to the effect of spraying a solution of i on sulphate upon ball mustard, it was found that in the sprayed plots much of the bal mustard was so weakened that no seed was pro-

duced.

As a result of the demonstration conducted at Olds, the department has no hesitation in recommending spraying as a practical remedy for wild mustard in this province, when the area to be sprayed is not too large, where the mustard is very thick, and the farmer does not wish to lose a year by summer-fallowing. It is hoped that with another year's experience more definite information will be available as to the effectiveness of the spray against ball mustard.

Where fairly large fields are to be sprayed, I would recommend the use of a 300-gallon tank mounted on a light truck waggon. In this case the use of a small gasoline engine to form the pumping power would considerably lighten the draft, also a large storage tank where the iron sulphate could be dissolved a and supply of the solution kept on hand, would greatly facilitate the work of

spraying.

#### PURITY OF SEED GRAIN.

It was reported to the department that the seed grain being distributed by the Dominion Government to the settlers in Alberta was infested with noxious weed seeds. I immediately made a thorough examination of all grain it was possible to get access to and handed a report of the work to the official in charge of the distribution, advising him of the serious nature of the noxious weed

seeds present, with the result that a number of cars of grain were cleaned, but I regret to have to report that some of the grain was distributed that was condemned. The following table shows the results of the examination:

RESULTS OF INSPECTION OF CARS OF SEED GRAIN SUPPLIED TO THE FARMERS OF ALBERTA BY THE DOMINION GOVERNMENT.

| CAR NO.  | DISTRIBUTING POINT  | KIND<br>OF<br>GRAIN             | No.ofNoxious<br>Weed Seeds<br>per 1,000 of<br>Grain | No. and kind of Weed<br>Seeds in sample<br>examined  |
|--|---|---------------------------------|---|--|
| Elevator   | Medicine Hat  | Wheat                           | Less than one                                       | 6 Purple Cockle<br>6 Cow Cockle<br>2 Wild Mustard  |
| 96006, C.P.R   | Medicine Hat  | u                               |   | 1 Wild Oats<br>5 Wild Oats   |
| 87514  | Medicine Hat  | Flax                            | One   | 1 Hare's Ear Mustard<br>53 Wild Mustard  |
| 46652, C.N.R   | Medicine Hat  | Oats                            | Four  | 22 Hare's Ear Mustard<br>8 Wild Oats<br>55 Ball Mustard<br>2 Wild Mustard<br>3 Wormseed Mustard  |
| .51506, C.N.R.   | Medicine Hat  | Oats                            | Two   | 1 Hare's Ear Mustard<br>24 Ball Mustard  |
| Elevator   | Medicine Hat  | ω.                              | Eight   | 8 Wild Oats 4 Wild Oats 1 Ball Mustard 1 Purple Cockle 5 Cow Cockle  |
| 132034, C.P.R<br>48894, C.P.R                                  | Medicine Hat<br>Burdett   | Oats<br>Wheat                   | None<br>Six   | 37 Hare's Ear Mustard<br>6 Wild Mustard<br>90 Ball Mustard   |
| 307574, G.T.P<br>44576, C.N.R<br>35998, C.P.R<br>308334, G.T.P | Burdett. Purple Springs. Grassy Lake. Grassy Lake. Bow Island. Bow Island | Oats<br>"Wheat<br>Oats<br>Wheat | None<br>Less than one<br>"<br>None<br>One           | 3 Wild Oats 2 Wild Oats 1 Wild Oats 3 Purple Cockle  |
|  | Bow Island  |                                 | Three   | 1 Cow Cockle 2 Purple Cockle 1 Wild Mustard 2 Hare's Ear Mustard 4 Stinkweed 8 Tumbling Mustard 7 Purple Cockle 3 Cow Cockle 1 Stinkweed 10 Hare's Ear Mustard 4 Wild Mustard 2 Tumbling Mustard |
| 40880  | Coutts  | Oats<br>Wheat                   | Less than one<br>Three                              | 22 Tumbling Mustard<br>1 Wild Oats   |
|  | Milk River  | . «                             | cc'   | 7 Stinkweed 20 Hare's Ear Mustard 1 Cow Cockle 1 Purple Cockle 15 Hare's Ear Mustard 2 Stinkweed 9 Cow Cockle  |
| 56364,   | Milk River  |                                 | Seven   | 4 Purple Cockle<br>58 Hare's Ear Mustard<br>9 Stinkweed<br>20 Cow Cockle<br>1 Wild Mustard   |

RESULTS OF INSPECTION OF CARS OF SEED GRAIN SUPPLIED TO THE FARMERS OF ALBERTA BY THE DOMINION GOVERNMENT.—Continued.

| CAR NO.                                | DISTRIBUTING<br>POINT              | KIND<br>OF<br>GRAIN | No.ofNoxious<br>Weed Seeds<br>per 1,000 of<br>Grain | No. and kind of Weed<br>Seeds in sample<br>examined  |
|--|------------------------------------|---------------------|---|--|
|  | Milk River<br>Carlstadt            |                     | None<br>Nineteen                                    | 1 Wild Mustard 52 Hare's Ear Mustard 35 Ball Mustard 5 Wormseed Mustard 2 Purple Cockle 2 Cow Cockle 1 Wild Oats 170 Stinkweed |
| 37266,                                 | Carlstadt                          | Oats<br>Wheat       | None<br>Less than one<br>Seven                      | 3 Wild Oats<br>2 Hare's Ear Mustard<br>175 Wormseed Mustard  |
| 308927,                                | Carlstadt                          | 46                  | Seven   | 1 Stinkweed<br>103 Wormseed Mustard<br>8 Hare's Ear Mustard<br>1 Purple Cockle<br>.2 Wild Oats                                 |
| Elevator                               | Irvine                             | Wheat               | Seven   | 8 Stinkweed 5 Wild Oats 5 Purple Cockle 11 Cow Cockle 48 Stinkweed 50 Hare's Ear Mustard                                       |
| 37550,                                 | Irvine                             | Oats                | Less than one                                       | 2 Wormseed Mustard<br>3 Ball Mustard<br>2 Wormseed Mustard<br>1 Wild Oats  |
| For sale by Mr. Schaller               | Irvine                             | Wheat               | u   | 4 Wild Oats  |
| u                                      | "                                  | Oats                | Six   | 5 Hare's Ear Mustard<br>70 Wild Oats<br>2 Wormseed Mustard<br>23 Ball Mustard<br>1 Wild Mustard                                |
| 86674, C.P.R                           | Warner                             | Wheat               | Six   | 13 Hare's Ear Mustard<br>Hare's Ear Mustard<br>Stinkweed<br>Wild Mustard<br>Cow Cockle   |
| 94166, C.P.R                           | и                                  | Wheat               | Twelve  | Purple Cockle 8 Wild Oats 78 Hare's Ear Mustard 13 Stinkweed 10 Wild Mustard 8 Cow Cockle 1 Purple Cockle                      |
| 103724, C.B.Q                          |                                    | Oats                | One .   | 8 Wild Oats 1 Ball Mustard   |
| 72700,                                 | Lethbridge, Car-<br>mangay & Kipp. |                     | Three   | 7 Wild Oats<br>1 Hare's Ear Mustard<br>4 Ball Mustard  |
| 30608, G.T.P<br>85252, C.P.R           |                                    | "<br>Wheat          | None<br>One   | 2 Wild Oats<br>2 Russian Pigweed   |
| 37628, C.P.R<br>83136, C.P.R<br>36130, | u<br>Čarmangay                     | u<br>u              | One<br>Less than one<br>3 in 9600                   | 1 Cow Cockle 2 Wild Oats 1 Wild Oats 1 Wild Oats 1 Hare's Ear Mustard 1 Cow Cockle   |

RESULTS OF INSPECTION OF CARS OF SEED GRAIN SUPPLIED TO THE FARMERS OF ALBERTA BY THE DOMINION GOVERNMENT.—Continued.

| ***                   |                       |                     |  |   |
|-----------------------|-----------------------|---------------------|--|---|
| CAR NO.               | DISTRIBUTING<br>POINT | KIND<br>OF<br>GRAIN | No.of Noxious<br>Weed Seeds<br>per 1,000 of<br>grain | No. and kind of Weed<br>Seeds in sample<br>examined     |
| 43705,                |                       | "                   | One  | 1 Purple Cockle<br>1 Stinkweed<br>14 Wild Oats          |
| 98600, C.P.R          | 46                    | 46                  | None   | 14 Wild Oats  |
|                       | Taber                 | Oats                | Three .  | 14 Wild Oats<br>23 Wild Oats                            |
| 50366, P.R.P.         | α                     | Wheat               | Two  | 14 Stinkweed<br>23 Wormseed Mustard<br>1 Wild Oats      |
| 86606, C.P.R          | «                     | u                   | Less than one  |   |
| 46860,                |                       | Oats                | ű  | 1 Wild Oats 1 Ball Mustard 1 Russian Thistle            |
| Taylor Milling        |                       |                     |  | i itassian imstie                                       |
| Co                    | и                     | и                   | u  | 2 Wild Oats<br>1 Wild Mustard<br>1 Cow Cockle           |
|                       | «                     | Wheat               | 40   | 1 Purple Cockle   |
| Elevator              | "                     | Oats                | - One  | 7 Wild Oats   |
|                       |                       |                     | Less than one  | 1 Hare's Ear Mustard<br>4 Wild Oats                     |
| 78014                 | Brooks                | α.                  | One  | 7 Wild Oats 5 Purple Cockle 1 Cow Cockle 1 Ball Mustard |
| 131118                | · «                   | Oats                | Three  | 16 Wild Oats<br>11 Ball Mustard                         |
| 49960<br>91704, C.P.R | Seven Persons         | . "                 | Less than one<br>Two                                 | 2 Wild Oats<br>14 Wild Oats                             |
| 33378, C.N.R.         |                       | Oats                | Distributed be                                       | efore inspection  |

LIST OF WEED INSPECTORS FOR THE SEASON OF 1911.

| NAME                           | ADDRESS    | CONSTITUENCY  |
|--------------------------------|------------|---|
| Adair, T. H                    | Stettler   | Stettler—Townships 34 to 41 inclusive,<br>Ranges 18 to 21 inclusive.                                      |
| Alfred, J. G                   | Raymond    | Cardston and Lethbridge—Townships 4 to 6 inclusive, Ranges 20 and 21.                                     |
| Britain, J. W                  | Castor     | Stettler—Townships 34 to 41 inclusive, Ranges 14 to 17 inclusive.   |
| Blue, O                        | Alsask     | Stettler and Sedgewick—Townships 24 to 33 inclusive, Ranges 1 to 21 inclusive.                            |
| Brown, J. C                    | Lethbridge | Lethbridge—Townships 7 to 9 inclusive, Ranges 18 to 23 inclusive.   |
| Boileau, F. X                  | Duvernay   | Pakan—Townships 56 to 64 inclusive, ranges 6 to 11 inclusive.   |
| Bowtell, H                     | Frog Lake  | Pakan—Township 54 to, ranges 1 to 5 inclusive.  |
| Callaway, E. J Capron, Joseph  | Blackfalds | Southern half of Cochrane constituency.<br>Red Deer constituency.<br>Pakan—Townships 56 to 64 inclusive.  |
| Drollinger, J. W<br>Dockrey, H | Claresholm | Ranges 12 to 17 inclusive. Eastern portion of Claresholm constituency Western portion of Claresholm con-  |
| Ellis, John                    | Bowell     | stituency. Medicine Hat—Townships 12 to 22 in-  |
| Ferris, Robert                 | Hayter     | clusive, ranges 1 to 10 inclusive.<br>Sedgewick—Townships 34 to 40 inclusive,<br>ranges 1 to 13 inclusive |

LIST OF WEED INSPECTORS FOR THE SEASON OF 1911.—Continued.

| NAME                                   | ADDRESS                  | CONSTITUENCY  |
|--|--------------------------|---|
| Fluker, John<br>Holman, J              | Beaver Hills             | Victoria constituency. Medicine Hat and Lethbridge—Townships  |
|  |                          | 4 to 6 inc., ranges 17 to 19 inclusive.<br>Cardston—Townships 1 to 3 inclusive,<br>ranges 21 to 30 inclusive.                                 |
| Hall, G. B<br>Haines, L. A             | Cayley<br>Turin          | Nanton and High River constituencies.<br>Lethbridge—Townships 10 to 14 inclusive,<br>ranges 18 to 22 inclusive.                               |
| Hull, Thomas<br>Hogan, E               | St. Albert<br>Namao      | Lacombe constituency. Leduc constituency. St. Albert and Pembina constituencies. Sturgeon constituency. Innisfail and Olds—Townships 32 to 37 |
| Kelly, W. J                            |                          | inc., ranges 3 to 7 inclusive. Western portion of Didsbury and northern half of Cochrane.   |
| Lively, G. J Logan, James              | Islay<br>Trochu          | Alexandra constituency.<br>Innisfail, Olds and Didsbury—Townships<br>29 to 36 inc., ranges 22 to 25 inc.                                      |
| Leslie, Andrew<br>McGowan, R. J        | Duhamel<br>Killam        | Southern portion of Camrose constituency. Sedgewick—Townships 41 to 47 inc.,  |
| ,                                      |                          | ranges 6 to 15 inclusive.  Macleod and southern portions of Claresholm.   |
| McBride, D                             | Davisburg<br>Olds        | Okotoks constituency.<br>Innisfail and Olds—Townships 32 to 36  |
| Murray, George                         | Seven Persons            | inc., range 26, w. 4, to range 2, w. 5.<br>Medicine Hat—Townships 1 to 12 inclusive, ranges 5 to 10 inclusive.                                |
| Mohan, T                               |                          | Cardston—Townships 1 to 5 inclusive, ranges 11 to 20 inclusive.   |
| Miquelon, L                            | Bruce                    | Wetaskiwin and Ponoka constituencies.<br>Vegreville constituency.<br>Cardston and Lethbridge—Townships 3                                      |
| Orlecki, S                             | Duvernay                 | to 6 inclusive, ranges 22 to 25 inc.<br>Vermilion—Townships 52 to 55 inclusive,<br>ranges 6 to 12 inclusive.                                  |
| Robinson, H                            | Eyremore                 | Lethbridge—Townships 15 to 20 inclusive, ranges 16 to 22 inclusive.   |
| Smibert, G. H                          |                          | Medicine Hat—Townships 1 to 14 inclusive, ranges 1 to 4 inclusive.  |
| Slawson, D. K                          |                          | Lethbridge—Townships 6 to 14 inclusive, ranges 11 to 14 inclusive.  |
| Sproule, O. B                          |                          | Vermilion—Townships 45 to 51 inclusive, ranges 6 to 12 inclusive.   |
| Turnbull, Robert Tate, Thomas Ulmer, L | Bittern Lake Stony Plain | Strathcona constituency.  Northern half of Camrose constituency.  Stony Plain and Lac Ste. Anne constituency.                                 |
| VanOrman, R. A                         | Taber                    | Lethbridge—Townships 7 to 14 inclusive, ranges 15 to 17 inclusive.  |

It being impossible to look after the office work and at the same time keep in personal touch with the local inspectors three assistants were added to the staff. O. J. Hughes and Isaac McClure acted in this capacity for forty days during the months of July and August. The services of J. D. Smith were retained throughout the entire season.

These gentlemen did efficient work and I should like to make special mention of Mr. Smith's untiring efforts in Southern Alberta and would recommend that he be retained as a permanent assistant.

Respectfully submitted.

A. McKenney,

### 4.—REPORT OF CHIEF GAME AND FIRE GUARDIAN.

Sre,—I have the honour to submit herewith my sixth annual report in connection with the enforcement of The Game Act and Prairie Fires Ordinance for the year 1911.

### I.—PROTECTION OF GAME.

This branch of the department was first organized in July, 1906. Previous to this no provision was made for supporting the efforts of the voluntary game guardians in enforcing the provisions of The Game Ordinance of the North-West Territories, which was then in force, and which applied in all matters pertaining to the protection of game until the 15th day of March, 1907, when the present Game Act was assented to by His Honour the Lieutenant Governor. This Act, of course, has been amended from time to time and is now possibly one of the most complete enactments of its kind in North America. Although not as stringent as many of the acts providing for the protection of game in the various provinces and states, yet I do not think that it could be arranged to suit local conditions any better than at present. North of the 55th parallel which crosses the province from east to west at about the northern boundary of township 69, the residents are permitted to take game at any season of the year for the use of themselves and family. This privilege is also extended to parties travelling through that portion of the province referred to, in the event of their requiring the flesh of big game or game birds for the purpose of food. When the Act was adopted in 1907 provision was made for the obtaining of licenses by residents of the province who wished to hunt big game. The demand for these licenses is increasing each year as shown by previous reports, and which will be referred to and tabulated on the following The revenue obtained from this source evidently demonstrated to the legislature the possibility of making the protection of game self-supporting, *i.e.*, the revenue derived from licenses and permits being sufficient to cover all necessary expenditure required in connection with the enforcing of the provisions of the Act. The revenue has continued to increase from year to year until in 1910 the excess of revenue over expenditure amounted to \$2,174.05. The present year shows a revenue of \$16,219.50 with an expenditure of \$8,935.00, leaving the sum of \$7,284.50 as a surplus over and above expenditure. It is only reasonable to expect that a gradual increase of revenue will be shown from year to year and which should in time amount to as much as is being obtained in many of the states to the south of us. Under the license system, in connection with which a commission for issuing licenses is allowed, game guardians have become more interested in game preservation. This, with an increase in the number of guardians, has resulted in the better enforcement and observance of the provisions of the Act from year to year. In many districts there are a few individuals who apparently delight in acting the part of what is commonly called "game hogs," and as other residents of the district are beginning to realize the necessity for game protection, they are taking exception to the actions of such persons, thereby simplifying the enforcement of the Act in such localities. Where an example is made of parties who

continually disregard the provisions of the Act, it has a salutary effect in discouraging other would-be law-breakers. This department appreciates the assistance given by settlers and others in reporting infractions of the Act and assisting in its enforcement. The public is becoming educated to the fact that it is to the advantage of all concerned to have the game protected, otherwise it will disappear or become exterminated like the buffalo.

#### BIG GAME.

Buffalo.—From reports received the wild buffalo, whose range is in the country near the northern boundary of the province, do not appear to be decreasing in numbers; the most authentic reports estimate the number of these animals at four hundred. I am advised that the Dominion Government have engaged two men to look after these animals and kill the timber wolves which in past years have keen preying on the calves and old animals. It is believed that the animals range frequently in the Mackenzie district to the south of Fort Simpson and west and north of Fort Smith, which is on the line dividing Alberta and Mackenzie.

Elk are increasing in numbers under the protection given them and under ordinary conditions, with favourable seasons, should

show an increase in numbers when the season opens in 1915.

Moose, Deer and Caribou do not show any apparent decrease in numbers; if anything I am of the opinion that moose and deer will continue to increase under the additional protection given them by prohibiting the killing of females and animals under one year of age. In many districts black-tailed deer were seen in 1911, for the

first time in many years.

Mountain Sheep and Mountain Goats are increasing from year to year and are now reasonably plentiful. The establishing of preserves in the mountains has provided breeding grounds for these as well as other wild animals. This, together with the appointing of game guardians in the national parks, has resulted in the better protection of all wild animals in the mountains. In some sections the Indians still make their annual slaughter, but the establishing of parks has reduced the territory in which they have been allowed to operate. One sportsman reports having obtained his limit of mountain sheep

in one day, being successful in obtaining two fine rams.

Antelope. I regret that I am again compelled to report conditions as being unfavourable for antelope. Their range is being rapidly settled by homesteaders, consequently the territory over which they have formerly roamed is becoming reduced in size and will eventually be entirely settled, thereby crowding the antelope out of existence unless a reserve is established. I cannot too strongly recommend the establishing of such a reserve. In my opinion the most suitable locality would be on the Red Deer river somewhere in the neighbourhood of range 10, west of the 4th meridian. is a large stretch of rough country which will never be fit for anything but range purposes, and if fenced would be an ideal place for antelope. I would also recommend that provision be made for the feeding of antelope in the winter, as the loss from severe weather, deep snow and restriction of range, has a tendency to reduce their numbers to a great extent each year. The efforts of the Dominion Government to preserve these animals in their present parks have apparently not been successful; hence my recommendation for the establishing of a park as specified above.

#### GAME BIRDS.

Ducks.—These valuable birds are decreasing in numbers. The casual observer would undoubtedly form the opinion that they are yet exceedingly plentiful. Those who have been in the province for a number of years and who have kept in touch with such matters realize that their numbers have become reduced, and from reports received from others parts of the continent, it would seem that it is only a question of time before they will become exceedingly scarce unless some means of propagating them is discovered. A strong movement is on foot now in the eastern states for the raising of wild ducks and establishing game farms. This, I think, will be the most effective means of preserving many of our game birds and animals. I would, therefore, recommend that where any tendency is displayed by farmers or others who are in a position to handle the matter in a suitable manner that they be given permission to raise wild ducks or establish a wild duck farm under proper control and subject to any legislation which may be adopted by the legislature, regulating the raising and marketing of these valuable game birds. In some sections of the province certain species of ducks were to be found as late as the 20th of December.

Prairie Chicken (sharp-tailed grouse).—I am pleased to be able to again repors a plentiful supply of these birds over practically the whole of the province, but more especially in the timbered and brush country. Farmers, sportsmen and others interested in game preservation were well pleased with the supply of chicken. It is to be regretted, however, that in many sections shooting commenced in the month of September instead of waiting for the opening of the season on the 1st of October. Persons so shooting imagine that they are doing something clever by "potting" a few birds before the opening of the season, thereby taking advantage of the law-abiding principle of their neighbours who are willing to confine themselves to the open

season.

Partridge (ruffed grouse).—My remarks respecting prairie chicken will apply also to partridge. It is to be hoped that the destructive fires which have been an annual occurrence in the past will be restricted to smaller areas in the future, as there is nothing so destructive to bird life and especially birds of the grouse family as prairie and forest fires.

Hungarian Partridge.—These birds are reported as doing nicely and increasing in numbers. They were imported from Europe by the sportsmen of the southern part of the province and placed in various districts. From reports received it is apparent that they are spreading yearly over an ever-increasing territory.

#### FUR-BEARING ANIMALS.

Beaver.—These animals are increasing in numbers and are reported from some districts as becoming considerable of a nuisance by damming rivers and creeks and cutting down timber in sections which are sparsely treed. The open seasons which were provided by Order in Council in previous years north of the 55th parallel, greatly assisted the inhabitants in that portion of the province referred to in providing for their families, as for some years other fur-bearing animals have been exceedingly scarce.

Mink, Fisher and Marten, and many fur-bearing animals which are not protected are again becoming more plentiful. The result will undoubtedly mean a great increase in the fur catch for the season of

1911 and 1912.

#### BIG GAME SECURED.

The open season for big game was very favourable for hunting, the result being an increase in the number of animals secured. Upwards of nine hundred more big game licenses were sold in 1911 than in 1910. The returns received from license holders giving the number of animals shot, shows the following result for the years 1907 to 1911 inclusive:

|                | 1907 | 1908 | 1909 | 1910 | 1911 |
|----------------|------|------|------|------|------|
| Antelope       | 49   | 45   | 89   | 126  | 101  |
| Moose          | 14   | 37   | 86   | 184  | 305  |
| Caribou        |      |      | 5    | 8    | . 30 |
| Mountain Sheep |      |      | 40   | 54   | 49   |
| Mountain Goat  |      |      | 38   | 46   | 56   |
| Elk            |      |      |      | 7    |      |
| Deer           | 59   | 125  | 299  | 540  | 619  |

This of course does not show the total game killed, as very few of the residents in the unorganized districts purchased licenses. The records, however, for game killed south of the 55th parallel are reasonably correct.

#### BRANDING GAME HEADS.

Section 11 of the Act which requires the branding of game heads before buying or selling, shows the following results:

|                | 1907 | 1908 | 1909 | 1910 | 1911 |
|----------------|------|------|------|------|------|
| Mountain Sheep | 216  | 2    | 9    | 11   | 2    |
| Mountain Goat  | 62   |      | 1    | 1    | 1    |
| Elk            | 41   | 3    | 4    | 2    | 2    |
| Moose          | 39   | 29   | 33   | 32   | 40   |
| Caribou        | 16   | 6    | 6    | 2    | 3    |
| Deer           | 142  | 15   | 26   | 26   | 40   |
| Antelope       | 95   | 5    |      | 3    | 3    |

#### LICENSES AND PERMITS.

An increased number of licenses and permits were issued in 1911 as against former years. The amendment to the Act requiring residents of the province residing in cities, towns and villages to obtain licenses before hunting or shooting game birds, resulted in the sale of 7,452 of these licenses and an increase of 64 in the number of bird game licenses sold.

The following table shows licenses and permits sold each year:

|                             | 1907 | 1908 | 1909  | 1910 | 1911  |
|-----------------------------|------|------|-------|------|-------|
| General Game Licenses       | 4    | 7    | 17    | 24   | 24    |
| Bird Game Licenses          |      |      | 3     | 3    | 67    |
| Trappers' Licenses          | 6    | 4    | 1     | 10   | 14    |
| Resident's Big Game         | 446  |      | 1,162 |      | 813   |
| Resident Farmer's Big Game. |      |      |       |      | 2,118 |
| Resident Bird Game          |      |      |       |      | 7,452 |
| Guides' Licenses            | 6    | 3    | 7     |      | 13    |
| Camp Helpers' Licenses      | 1    | 1    | 1     | 4    |       |
| Game Dealer's Licenses      | 12   | 23   | 39    | 30   | 16    |
| Market Hunter's Licenses    |      |      |       |      | 60    |
| Permits to export           | 15   | 17   | 19    | 35   | 24    |
| Permits to collect          | 6    | 6    | 16    | 23   | 7     |

#### CONVICTIONS AND FINES.

|                                     | 1908 | 1909 | 1910 | 1911 |
|-------------------------------------|------|------|------|------|
| For hunting on Sunday               | 12   | 4    | 4    | 9    |
| For hunting in close season         | 11   | 36   | 29   | 23   |
| Buying and selling unbranded heads. | 8    | 6    | 3    | 1    |
| Hunting without a license           | 7    | 6    | 14   | 17   |
| Selling without a license           | 7    | 7    |      | 1    |
| Miscellaneous offences              | 4    | 2    | 9    | . 7  |
| Taking females                      |      |      |      | 4    |

#### REVENUE FROM GAME-MONEYS COLLECTED,

|                                | 1          | -          |            |            |            |             |
|--------------------------------|------------|------------|------------|------------|------------|-------------|
|                                | 1906       | 1907       | 1908       | 1909       | 1910       | 1911        |
| General Game                   |            | \$93.00    | \$175.00   | \$425.00   | \$600.00   | \$ 600.00   |
| Bird Game                      |            |            |            | 45.00      | 45.00      | 335.00      |
| Trapper's                      |            | 40.00      | 40.00      | 10.00      | 100.00     | 140.00      |
| Resident's Big Ga              | me         | 115.00     | 1,322.50   | 2,905.00   |            |             |
| Resident Farmer's              | Big Game   |            |            | 1 /        |            |             |
| Resident Bird Ga               | me         |            |            |            |            |             |
| Guides'                        |            | 30.00      | 15.00      |            |            |             |
| Camp Helper's                  |            | 2.50       |            |            |            |             |
| Camp Helper's<br>Game Dealer's |            | 120.00     |            |            |            |             |
| Market Hunter's.               |            |            |            |            |            | 300.00      |
| Permits to export              |            | 171.00     |            |            |            |             |
| Permits to collect             |            | 65.00      |            |            |            |             |
| Branding                       |            | 2,158.00   |            |            |            |             |
| Confiscated Game               |            | · /        |            | 104.50     |            |             |
| Fines                          |            | 154.00     | 337.50     |            |            |             |
| r mes                          |            | 134.00     | 557.50     | 447.00     | 328.00     | 700.00      |
| Total Revenue.                 | \$145.00   | \$3,948.50 | \$2,504.50 | \$4,793.50 | \$6,940.25 | \$16,219.50 |
| Total expenditure              | \$1,929.69 | \$2,216.62 | \$4,323.60 | \$5,579.90 | \$4,766.20 | \$8,935.00  |
| Surplus                        |            | 1,731.88   |            |            | \$2,174.05 | \$7,284.50  |
| Deficit                        | \$1,784.69 |            | \$1,819.10 | \$786.40   |            |             |

By referring to the above table it will be found that the revenue exceeded the expenditure for the year 1911 to the extent of \$7,284.50, and by comparing the revenue for the years 1906 to 1911 inclusive, with the expenditure for the same years, it will be seen that the revenue from the sale of licenses and permits exceeds the expenditure by \$6,800.24. It is therefore demonstrated that a license system which requires hunters and sportsmen to purchase a license before hunting or shooting game, places the protection of game on a self-supporting basis, and should result in an increased revenue each year, with the result that more game guardians can be engaged to better protect the game. It is possible that the revenue from this source will become sufficiently large to warrant the payment of a bounty on animals and birds destructive to game. Of these the covote and crow are the worst offenders.

TABLE I.—A RETURN SHOWING THE NUMBER AND VALUE OF THE FUR CATCH.

|                       | FROM    | M SMALL I        | DEALERS     |        | HOLESALE<br>EXPORTERS |
|-----------------------|---------|------------------|-------------|--------|-----------------------|
|                       | NO. OF  | AVERAGE<br>VÀLUE |             | NO. OF | TOTAL                 |
|                       | SKINS   | VALUE            | VALUE       | SKINS  | VALUE                 |
| Badger,               | 163     | \$1.01           | \$165.90    | 150    | \$337.50              |
| Bear, Black           | 209     | 19.03            | 3,977.60    | 1,160  | 9,352.20              |
| Bear, Brown           | 34      | 8.38             | 285.00      | 112    | 944.80                |
| Bear, Grizzly         | 15      | 17.42            | 261.35      |        |                       |
| Bear, Cub             | 15      | 4.10             | 61.50       | 55     | 275.00                |
| Beaver                | 580     | 4.42             | 2,569.00    | 3,032  | 14,190.00             |
| Coyote                | 1,858   | 2.98             | 5,555.25    | 1,897  | 8,127.00              |
| Fisher                | 15      | 8.40             | 126.00      | 65     | 880.00                |
| Fox (Cross)           | 57      | 7.50             | 428.00      | 391    | 4,685.28              |
| Fox (Red)             | 142     | 6.16             | 875.00      | 659    | 5,714.00              |
| Fox (Silver)          | 8       | 150.00           | 1,200.00    | 69     | 16,707.20             |
| Lynx                  | 159     | 20.26            | 3,221.50    | 950    | 18,106.48             |
| Marten                | 460     | 7.71             | 3,547.50    | 6,329  | 57,330.48             |
| $\operatorname{Mink}$ | 905     | 5.12             | 4,636.90    |        | 22,198.40             |
| Otter                 | 185     | 12.06            | 2,231.20    |        | 3,218.28              |
| Muskrat               | 106,708 | .25              | 27,457.36   |        | 99,126.93             |
| Skunk                 | 284     | 1.17             | 334.50      | 253    | 342.92                |
| Weasel                | 9,919   | .49              | 4,906.62    |        | 8,550.51              |
| Wolverine.,           | 346     | 3.05             | 1,055.87    | 143    | 860.51                |
| Wolf                  | - 30    | 9.35             | 280.00      | 270    | 1,028.10              |
| Muskox                |         |                  |             | 74     | 4,058.00              |
|                       |         |                  | \$63,176.05 | *      | \$276,033:46          |

TABLE II.—Showing Annual Fur Catch for the Years 1907 to 1911.

|               |         | FROM     | SMALL DEALERS | LERS  |         | FROM    | WHOLESALE | DEALERS | AND EXPORTERS | ERS     |      |
|---------------|---------|----------|---------------|-------|---------|---------|-----------|---------|---------------|---------|------|
|               | 1907    | 1908     | 1909          | 1910  | 1911    | 1907    | 1908      | 1909    | 1910          | 1911    |      |
| Badger        | 595     | 360      | 329           | 142   | 163     | 310     | 959       | 180     |               |         |      |
| Bear, Black   | 285     | 117      | 103           | 89    | 508     | 1.660   | 2 173     | 5 671   |               | 1 160   |      |
| Bear, Brown   | £       | 24       | 56            | ∞     | 34      | 342     | 300       | 195     |               | Ť       |      |
| Bear, Grizzly | 58      | 01       | 7             | ∞     | 15      | 127     | 40        | 2000    | 15            |         |      |
| Dear, Cub.    | 7       | <u>Б</u> | 19            |       | 15      | 100     | 70        | 51      |               |         |      |
| Deaver        | 750     | · 1      | 85            |       | 580     | 2,542   | 1,514     | 8,495   |               |         |      |
| Wishow.       | 206,11  | 11,537   | 5,765         | 3,222 | 1,858   | 5,262   | 6,404     | 3,055   |               |         |      |
| For Onesal    | 54.0    | 34       | 16            |       | 15      | 351     | 242       | 155     |               |         | A    |
| FOA, (CLOSS)  | 592     | 98       | 19            |       | . 57    | 1,674   | 910       | 445     |               |         | NI   |
| Fox, (iveu)   | 1,111   | 254      | 68            |       | 142     | 4,662   | 1,638     | 714     |               |         | J V. |
| roa, (Silver) | 210     | 12       | 2             |       | ∞       | 411     | 242       | 107     |               |         | JA   |
| Montage       | 116,21  | 1,834    | 307           |       | 159     | 42,669  | 7,778     | 1.176   |               |         | L    |
| Mai tem.      | 11,273  | 377      | 157           |       | 460     | 12,224  | 9,397     | 7,378   |               |         | İ    |
| Mint          | 2/4/2   | 77       | 5             |       | 185     | 423     | 520       | 539     |               |         | E    |
| MINK          | 8,053   | 637      | 369           |       | 905     | 7,912   | 2,685     | 2.562   |               |         | P    |
| Muskfat       | 199,661 | 104,811  | 142,334       | 234   | 106,708 | 119,833 | 157,493   | 288,654 |               | 355,512 | ΟR   |
| Squire        | 100,    | 380      | 51            |       |         |         |           |         |               |         | Ŧ,   |
| Weeklink      | 4,189   | 268      | 216           | 588   | 284     | 3,914   | 186       | 518     | 432           | 253     | , ]  |
| Weasel        | 6,256   | 4,984    | 5,889         |       | 9,919   | 5,491   | 7,523     | 14.643  | 20.838        | 17.319  | 19   |
| Wolverine     | 451     | 200      | 4             | 00    | 346     | 446     | 642       | 495     | 266           | 143     | 11   |
| Non.          | 60      | 23       | 34            | 889   | 30      | 922     | 237       | 218     | 861           | 270     |      |
| Deer.         | 357     | 91       | _             | 2     | :       | 30      |           |         |               |         |      |
| Moose         | 17      |          |               | es .  | :       | :       | 24        | 00      |               | :       |      |
| Constant      | 4       | :        | :             |       | :       | :       | 17        |         |               |         |      |
| Muslim        | :       | :        |               | :     | :       | :       |           | 125     |               |         |      |
| Markox        |         |          | :             |       |         |         | -         | 127     | 32            | 74      |      |

To those who are interested in the protection of game the close seasons adopted in other places will no doubt be of interest. The following tables give the desired information for the year 1911:

TABLE III.—OPEN SEASON FOR GAME BIRDS IN VARIOUS STATES AND PROVINCES.

| STATES   | Sharp-tailed Grouse<br>(Prairie Chicken)<br>Ruffed Grouse<br>(Partridge)  | DUCK  | GOOSE AND SWAN   |
|--|---|---|--|
| South Dakota North Dakota Montana Wyoming Colorado Florida Alabama Mississippi Tennessee Louisiana Oklahoma New Mexico Arizona California Nevada Utah Idaho Washington | Oct. 1 to Dec. 1 Sept. 15 to Nov. 15 Oct. 15 to Nov. 15 Oct. 15 to Dec. 16 Oct. 1 to Dec. 1 Oct. 1 to Dec. 1 Oct. 15 to Dec. 1 Oct. 15 to Dec. 1 Oct. 15 to Dec. 1 Nov. 15 to Jan. 1 Nov. 15 to Jan. 1 Nov. 15 to Dec. 1 Nov. 10 to Dec. 1 Sept. 10 to Dec. 1 Oct. 1 to Dec. 1 Sept. 10 to Oct. 15 Oct. 1 to Dec. 1 Sept. 10 to Oct. 11 Dec. 1, 1912 Nov. 1 to Mar. 1 Oct. 15 to Feb. 1 Sept. 1, 1911 Oct. 15 to Feb. 1 Sept. 1, 1911 Oct. 1 to Jan. 1 Oct. 15 to Dec. 1 Sept. 1 to Jan. 1 Oct. 15 to Nov. 15 | Sept. 1 to Jan. 1 Sept. 15 to Jan. 1 Aug. 15 to Apr. 1. Sept. 1 to Jan. 1 Sept. 1 to Jan. 1 Sept. 1 to Apr. 10 Oct. 1 to Apr. 16 Nov. 1 to Apr. 11 Oct. 15 to May 1 Sept. 1 to Apr. 20 Aug. 15 to Apr. 20 Aug. 15 to Apr. 1 Sept. 1 to Jan. 1 Sept. 1 to Jan. 2 Sept. 1 to Jan. 1 Sept. 1 to Jan. 1 Sept. 1 to Jan. 1 Sept. 1 to Apr. 15 Sept. 15 to May 1 Sept. 15 to May 1 Sept. 15 to Apr. 16 Sept. 10 to Apr. 10 Sept. 10 to Apr. 10 Sept. 1 to Jan. 1 Sept. 1 to Jan. 1 Sept. 1 to Jan. 1 Sept. 1 to Apr. 15 Sept. 1 to Jan. 1 Sept. 1 to Apr. 15 Sept. 1 to Jan. 1 Sept. 1 to Mar. 15 Oct. 1 to Feb. 15 Oct. 1 to Feb. 15 Oct. 1 to Feb. 1 | Sept. 1 to Jan. 1 Sept. 1 to Jan. 1 Sept. 16 to Jan. 1 Sept. 16 to Jan. 11 Sept. 16 to Jan. 11 Sept. 1 to Apr. 10 Oct. 1 to Apr. 16 Nov. 1 to Apr. 11 Sept. 1 to Jan. 1 Sept. 1 to Jan. 1 Sept. 1 to Jan. 1 Sept. 1 to Jan. 2 Sept. 1 to Jan. 1 Sept. 1 to Jan. 1 Sept. 1 to Jan. 1 Sept. 1 to Apr. 15 Sept. 10 to May 1 Sept. 1 to Apr. 15 Sept. 15 to May 1 Sept. 1 to Apr. 15 Sept. 15 to May 1 Sept. 1 to Jan. 1 Sept. 1 to Mar. 15 Sept. 1 to Mar. 15 Sept. 1 to Mar. 15 Sept. 1 to Mar. 1 Oct. 1 to Jan 1 Sept. 1 to Mar. 1 Oct. 1 to Jan 1 Sept. 15 to May 1 Sept. 15 to May 1 Sept. 15 to Mar. 1 Oct. 1 to Jan 1 Sept. 15 to Mar. 15 Oct. 1 to Jan 1 Sept. 1 to Jan 1 Sept. 15 to Mar. 15 Oct. 1 to Jan 1 Sept. 1 to Jan 1 |
| British Columbia Yukon. Alberta. Saskatchewan. Manitoba. Ontario. Quebec. New Brunswick. Nova Scotia. Prince Edward Isl'd. Newfoundland.                               | Oct. 1 to Nov. 1<br>Oct. 1 to Dec. 1  | Sept. 1 to Dec. 1 Sept. 15 to Dec. 1 Sept. 15 to Dec. 16. Sept. 1 to Mar. 1 Sept. 1 to Dec. 2 Aug. 15 to Mar. 1 Aug. 20 to Jan. 1   | Sept. 1 to Jan. 1. Sept. 15 to Apr. 16 Sept. 1 to Dec. 2   |

TABLE IV.—OPEN SEASON FOR BIG GAME IN VARIOUS STATES AND PROVINCES.

| STATES                                 | DEER   | ELK                                     | MOOSE              | ANTELOPE | SHEEP AND GOAT   |
|--|--|---|--------------------|----------|------------------|
| Maine.<br>New Hampshire.<br>Vermont.   | Oct. 1 to Dec. 15<br>Oct. 1 to Dec. 1<br>Oct. 25 to 31   |   | Oct. 15 to Dec. 1  |          |                  |
| Massachusetts.                         | To June 1, 1911.   |   |                    |          |                  |
| New Jork<br>New Jersey<br>Pennsylvania | Sept. 16 to Nov. 1.<br>Nov. 15 to Dec. 1                 |   |                    |          |                  |
| Virginia<br>West Virginia              | Sept. 1 to Dec. 1.<br>Oct. 15 to Dec. 1.                 |   |                    |          |                  |
| Kentucky<br>Michigan                   | Sept. 1 to Mar. 1.<br>Nov. 10 to Dec. 1                  |   | To June 16, 1913.  |          |                  |
| Wisconsin<br>Minnesota                 | 10 June 15, 1919.<br>Nov. 11 to Dec. 1.<br>Nov. 10 to 30 |   | Nov 10 to 30       |          |                  |
| Iowa                                   | Now 1 to lon 1   |   |                    |          |                  |
| South Dakota<br>North Dakota           | 1  | Nov. 1 to Dec. 1.                       |                    |          | Nov. 1 to Dec. 1 |
| Montana.<br>Wyoming                    |  | Oct. 1 to Dec. 1<br>Sept. 25 to Dec. 1. | To Sept. 25, 1912. |          | Oct. 1 to Dec. 1 |
| Colorado                               | Oct. 1 to Oct. 11<br>Nov. 1 to Feb. 1                    |   |                    |          |                  |
| Georgia<br>Florida                     | July 15 to Jan. 1<br>Nov. 1 to Feb. 1.                   |   |                    |          |                  |
| Alabama<br>Mississippi                 | Nov. 1 to Jan. 1.<br>Nov. 15 to Mar. 1.                  |   |                    |          |                  |
|  | To Oct. 1, 1911<br>Sept. 1 to Feb. 1                     |   |                    |          |                  |
| Texas.<br>Okļahoma.                    | Nov. 1 to Jan. 1   |   |                    |          |                  |

TABLE IV.-OPEN SEASON FOR BIG GAME IN VARIOUS STATES AND PROVINCES.-Continued.

| SHEEP AND GOAT | Sept. 1 to Dec. 1<br>Oct. 1 to Dec. 1<br>Aug. 20 to Jan. 1  | Sept. 1 to Nov. 15<br>Sept. 1 to Mar. 1<br>Sept. 1 to Oct. 15   |
|----------------|---|---|
| ANTELOPE       | Sept. 15 to Nov. 1  | Oct. 1 to Nov. 1.<br>Oct. 1 to Nov. 15.<br>Dec. 1 to Dec. 15.   |
| MOOSE          | Sept. 15 to Nov. 1. Aug. 20 to Jan. 1.  | Sept. 1 to Jan. 1. Sept. 1 to Mar. 1. Nov. 1 to Dec. 15. Dec. 1 to Dec. 15. Dec. 1 to Dec. 15. Oct. 16 to Nov. 16. Sept. 1 to Jan. 1. Sept. 16 to Nov. 16. To Jan. 1, 1912. |
| ELK            | Sept. 1 to Dec. 1.  | Sept. 1 to Jan. 1. Sept. 1 to Mar. 1. Nov. 15, 1912. Dec. 1 to Dec. 15. Dec. 1 to Dec. 15.  |
| DEER           | Oct. 15 to Nov. 16. Sept. 15 to Dec. 1. July 15 to Nov. 1. Sept. 15 to Nov. 15. Oct. 15 to Nov. 15. Sept. 1 to Dec. 1. Oct. 1 to Dec. 1. Aug. 1 to Nov. 1. Aug. 15 to Nov. 2. | Sept. 1 to Dec. 16. Sept. 1 to Mar. 1. Nov. 1 to Dec. 15. Dec. 1 to Dec. 15. Dec. 1 to Dec. 15. Nov. 1 to Nov. 16. Sept. 1 to Jan. 1. Sept. 1 to Jan. 1. To Oct. 1, 1912.   |
| STATES         | New Mexico Arizona California Nevada Utah Idaho Washington Oregon.  | PROVINCES British Columbia Yukon. Alberta Saskatchewan. Manitoba. Ontario. New Brunswick. Nova Scotta. Newfoundland.  |

### GAME GUARDIANS BY CONSTITUENCIES.

On the 31st of December there were 449 game guardians, being an increase over 1910 of 131. They have been arranged by constituencies as follows:

#### Alexandra.

| Avery, Walter       | Vermilion.     |
|---------------------|----------------|
| Heathcote, Jos.     | Kitscotv.      |
| Moore, D. H         | Isla <b>v.</b> |
| Carter, J. R        |                |
| Pound, L. L         | Ribstone.      |
| Hassall, H          | Lloydminster.  |
| Shanks, W. K        | Bashaw.        |
| Campbell, Stuart, F | Kitscoty.      |
| Lamont, Robt. Henry | Greenglade.    |

#### Athabacsa.

| Biggs, Wm      | Fort Me                                | Murray. |
|----------------|--|---------|
| Loutit, Peter. | Fort Ch                                | inewvan |
| Walker, C. A.  | ······································ | iw,     |

#### Camrose.

| Dempsey, J. G.                  | . Heather Brae. |
|---------------------------------|-----------------|
| Fleming, A. W.                  | Ohaton.         |
| Mohler, Wm.                     | Round Hill      |
| Mickleburgh, A                  | Spilstead       |
| Price, Jas                      | Hoather Bree    |
| Pithouse, H. G.                 | New Sarenta     |
| Spilstead, Chas                 | Spiletond       |
| Wilson, O. T.                   | Соттого         |
| Kezar C F                       | . Camrose.      |
| Kezar, C. F                     | r erintosii.    |
| Battram, Thos                   | . New Serepta.  |
| Kunke, F                        | . Ferintosn.    |
| Welles, W. D.<br>Griffis, H. H. | Daysland,       |
| Grims, H. H.                    | Daysland.       |
| Bailey, C. Stanley              | Camrose.        |
| Olesberg, Olaf E                | Bawlf.          |
| Neveu, Jas.                     | New Norway.     |
| Neveu, Joseph                   | New Norway.     |
| Yates, Wm                       | Duhamel.        |
| Wendt, W. F.                    | Edberg.         |
| Brooks, M. W.                   | . Bittern Lake. |
|                                 |                 |

#### Calgary.

| Brodie, Neil  |
|---|
| Beveridge, S. E                                       |
| Beveridge, S. F. Calgary.<br>Campbell, D. W. Calgary. |
| Grahame, G. M. Calgary.                               |
| Wheeler, A. O   |
| Oswald, J. C  |
| Kennerly, L. H  |
| McKay, W. G   |
| Dippie, G. F  |
| Martin, Fred R  |
| Martin, Alex  |

#### Cardston.

| Brown, John  | Geo          | ill. |
|--------------|--------------|------|
| Sloan, John. |              |      |
| Tolley, Wm.  | F Mountain V | iew. |

# Claresholm.

| Bagley, Travis | <br>Meadow Creek. |
|----------------|-------------------|
| Lyndon, Wm     | <br>Lyndon.       |
|                |                   |
|                |                   |
| Smith. Percy   | <br>Granum,       |

### Cochrane.

| Abell, E. H Cochrane.  |
|--|
| Bell, E. L. Inglis,  |
| Bell. ErnestLochend.   |
| Fraser, J. A. WJumping Pound   |
| Graham, Wm Dog Pound.  |
| Grayson, Chas  |
| Johnston, Geo. W   |
| Meiklejohn, R. W Cochrane.   |
| McLeod, GeoCrossfield.   |
| Robinson, R. G   |
| Skinner, D. W  |
| Thomson, E. V  |
| Edwards, CecilGlenbow.   |
| Butler, Robt   |
| Farr, LeslieAirdrie.   |
| Davie, John S  |
| Spooner, J. A Kew.   |
| Baptie, Adam M Exshaw.   |
| Davey, Wm. CAirdrie.   |
| McDougal, John B Morley.   |
| Reid, Geo. ABottrel.   |
| Troiting and the second |

## Didsbury.

| Henson, Gordon             |  |
|----------------------------|--|
| McLeod, JohnSunnyslope.    |  |
| McIntyre, Wm Didsbury.     |  |
| Godden, Edwin              |  |
| Shantz, David Didsbury.    |  |
| Shantz, Allan R Carstairs. |  |
| James C. S. Acme.          |  |

### Edmonton.

### Gleichen.

| Bunny, B. H     | Bassano.       |
|-----------------|----------------|
| Brereton, David | Red Deer.      |
| Brown, W. W     | Strathmore.    |
| Hull, Geo. B    | Strathmore.    |
| Martin, Dan, Jr | Rosebud Creek. |
| Clark, John, Jr |                |
| Bruce, Edward M | Cluny.         |
| Service, Wm     | Gleichen.      |
| Slude, David    | Dorothy.       |
| Robson, R. B    | Strathmore.    |
| Nathan, J. H.   | Beiseker.      |

# High River.

| Dunlop, Wm. A High River. |
|---------------------------|
| Estcourt, Wm. H Pekisko.  |
| Gervais, RomainLoma.      |
| Brown, S. JAldersyde.     |
| Sexsmith, J. L            |
| Riddle, D. M Baronet.     |
| Kuck, FredPekisko.        |
| Baker E R Pekisko         |

### Innisfail.

| Archer, F. W      | . Innisfail.      |
|-------------------|-------------------|
| Faris Jas. Jr     | . Trenville.      |
| Hunford, B        | . Markerville.    |
| Milligan, R       | . Pine Lake.      |
| Mustard, H. M     | . Markerville.    |
| Morton-Bell, R    | . Trenville.      |
| Robinson, Edmund  |                   |
| Robinson, W. H.   |                   |
| Robinson, J. K.   |                   |
| Scott, Wm. L      | . Markerville.    |
| Thaw, Guy         | .Raven.           |
| Major, Donald     | . Stauffer.       |
| Muir, B. A.       | . Prairie Grange. |
| Thomson, Frank J. | . Innisfail.      |
| Sanborn, J. E     | . Innisfail.      |
| Bower, Len. D     |                   |

### Lacombe.

| Brereton, T. A                               |
|--|
| Boyd, A. J. Lacombe. Capron, Jos Blackfalds. |
| Capron, JosBlackfalds.                       |
| Carritt, J. C Bentley.                       |
| Godfrey, SidneyLacombe.                      |
| McPherson, W. B Bentley.                     |
| Pinnell, ChasAlix.                           |
| Smith, WmLockart.                            |
| Stephens, FredLacombe.                       |
| Triplett, J. E Forshee.                      |
| Waghorn, WBlackfalds.                        |
| Wells, W. EWhitebrush.                       |
| Evans, H. J. AngellLacombe.                  |
| Hueppleheuser, Ö. WLockart.                  |
| Miller, Leroy B Lacombe.                     |

# Lac Ste. Anne.

| Musselman, DOnoway.        |
|----------------------------|
| Maloney, J. V Roydale.     |
| Pegrum, FrankWabamun.      |
| Shields, W. K              |
| White, HenryWabamun.       |
| Swift, L. F Lac Ste. Anne. |
| Braithwaite, GeoRexboro.   |

#### Leduc.

| Alpaugh, E. Buch, A. R. Blades, W. F. Brissard, Jos. Clifford, F. Erwin, Jonah Green, F. B. Hudson, Wm. O'Mara, E. Peterson, Nels. Sanders, Nels A. Ohrn, Carl Herbert. Sahlstrom, Walter. Stromsen, S. M. Barker, R. C. Piggett, Ben. Halwa, M. S. Blades, Jas. Postle, Leonard. | Leduc. Leduc. Leduc. Conjuring Creek Leduc. Bonnie Glen. Buford. O'Mara. Millet. Thorsby. Ohrnville. Thorsby. Yule Meadow. Leduc. Calmar. Glidehurst. Millet. |
|---|---|
| Lethbridge City.  |   |
| Case, H<br>Withers, H. P  | Lethbridge.   |
| Lethbridge Disrtict.  |   |
| Layton, S. J. Wright, B. W. Ostlund, Gustav. Crabb, S. A. B. Lomas, George. Olander, C. G. Miller, Manley L. O'Brien, T. J.   | Taber. Stirling. Barnwell. Bow Island. Lethbridge   |
|   | 75 W. TT.   |
| Bray, J. H. G. Murray, Geo Rutherford, Wm. Rutherford, R. Armstrong, Peter R. Robinson, Jas. Boyd, Robt. Hassard, H. Newby, Herbert Sutton. Thurn, A. M. Clarke, Maurice T. Bishop, Jesse. Stephens, H. J. Murray, J. B. Whiffin, Hartley A.                                      | Seven Persons. Elkwater. Irvine. Elkwater. Josephburg. Medicine Hat. Irvine. Walsh. Eagle Butte. Medicine Hat. Carlstadt.                                     |
| Macleod.  |   |
| Cochlin, John Pearson, G. Roberts, P. J.  | Macleod.<br>Standoff.<br>Macleod.   |
| Nanton.   |   |
| Stanford, T. B  | Stavely.<br>Nanton.<br>Champion.  |

### Okotoks.

| Austin, Frank C De Winton.     |
|--------------------------------|
| Buckler, Eric W Black Diamond. |
| May E. G                       |
| Craig, FMidnapore.             |
| Fulton, J Kew.                 |
| Grant, JohnBlack Diamond.      |
| Anderson, HerbertMillarville.  |

# Olds.

| D                         |
|---------------------------|
| Byron, Thos Eagle Hill.   |
| Distman, A. C             |
| Starken, Swan             |
| Thompson, ColinRed Lodge. |
| Thompson, EvanRed Lodge.  |
| Logan, N. W Olds.         |
| Grant, J. F Olds.         |
| McKim, H. H Bowden.       |
| Barathy, Sidney deTrochu. |
| Shenfield, E. WBowden.    |
| Durant, HarryTrochu.      |
| Brewster, J. I            |
|                           |

### Peace River.

| English, W. S. O | Spirit River,         |
|------------------|-----------------------|
| Gaudet, Jno. P   | Peace River Crossing. |
| Jones, Robt      | Fort Vermilion.       |
| Monkman, Alex    |                       |
| McDonald, Duncan | Dunvegan.             |

#### Pembina.

| Clark, T. A    | <br>Pembina. |
|----------------|--------------|
| Cosens, F      | <br>Sion.    |
| Romeo, Jos. R  | <br>Peavine. |
| Mennier, I     | <br>Mosside. |
| Lucas, Arthur  | <br>Clvde.   |
| Maier, Wm. G   |              |
| Barton, Robt   | <br>Mosside. |
| Matthews, Wm   |              |
| Bray, Wm. B    |              |
| Edgson, Jno. A | <br>Edison.  |

### Pakan

| Shortridge, G. W   |                    |
|--------------------|--------------------|
| Despins, Louis Nap |                    |
| Borwick, John      | Cork.              |
|                    | Moose, Tyrol       |
| Yealands, Geo      | Pakan.             |
| Veillet, Geo. E    | Veillet.           |
| Benerlin, Chas     | St. Paul de Metis. |

### Pincher Creek.

| Clarkson, R. B Pincher Creek. |
|-------------------------------|
| Garrault, L Pincher Creek.    |
| Hillier, ErnestTwin Butte.    |
| Hillier, Ernest               |
| Porter, Geo. E Livingstone.   |
| Swinney, J. W. T              |
| Wilson, T. G Livingstone.     |
| Willock, D. F. W              |
| Riviere, HenryPincher.        |
| Dennis, Wilson                |
| Dansey, R. C                  |
| Willdigg, Thos. SMaycroft.    |

### Ponoka.

| Craig, B. F     | Bluff Centre.  |
|-----------------|----------------|
| Everts, Jas     | Wittenburg.    |
| Fleming, Louis  | . Ponoka       |
| Fraser, A. B.   | . Ponoka.      |
| Schnoor, John   | . Ponoka.      |
| Stewart, P. R.  | . Earlville,   |
| Davidson, A     | . Buckhorn.    |
| Beeley, J. H.   | . Rimbey.      |
| Webster, O. L.  | Ponoka.        |
| Fagen, M. A     | . Water Glen.  |
| Craft, O. O.    | Asker          |
| Allan, Rolla B. | . Chesterwold. |
| Aldridge, C. D  | Wittenburg.    |

### Red Deer.

| Bleay, Richard                 |
|--------------------------------|
| Cottingham, W. H Red Deer.     |
| Fisher, F. B Red Deer.         |
| Kendall, J. S                  |
| Mellor, C. P                   |
| Wallace, JosRed Deer.          |
| Hart, J.P., Thos. Leslieville. |
| Pearson, Wm. H                 |
| Robinson, Stuart M             |
| McDonall, G. H Pitcox.         |

### Rocky Mountain.

| Francis, H.  | P. E. |    |  | <br> |  |  |  |    |   |  |  | <br>   |  |  |    | Pekisko |
|--------------|-------|----|--|------|--|--|--|----|---|--|--|--------|--|--|----|---------|
| McDougall,   | D     |    |  |      |  |  |  |    |   |  |  | <br>٠. |  |  |    | Banff.  |
| Robertson, 1 | Robt. | ٠. |  | <br> |  |  |  | ŀ, | ı |  |  | <br>   |  |  |    | Banff.  |
| Sibbald, H.  |       |    |  |      |  |  |  |    |   |  |  |        |  |  |    |         |
| Hogarth, Jo  | hn    |    |  |      |  |  |  |    |   |  |  |        |  |  |    | Banff.  |
| Bevan, Jack  |       |    |  | <br> |  |  |  |    |   |  |  |        |  |  | ı, | Banff.  |

# Sedgewick.

| De Bord, J. W                              | . Amisk.      |
|--|---------------|
| De Bord, J. W.<br>Lyall, Chas. F.          | .Strome.      |
| Matusch, A. E.                             | . Amisk.      |
| McDonald, J. S.                            |               |
| De Pass, F                                 | Strome.       |
| Reid, Elmer                                | Harland       |
| Reid, Elmer<br>Robson, T. S.               | Killam        |
| Ward, M. H.                                | Sedgewick     |
| Rae, J. D.                                 |               |
| Gillman, Thos. Herbert                     |               |
|  |               |
| Schnider, Felix Chas. Purdy, Edwin Brewer. | Sounding Lake |
| Evans, Thos. J.                            | Promost       |
|  |               |
| Roderick, John Jas.                        | Erro Uill     |
| Farquharson, Alex                          | C-on          |
| Glockin, Daniel                            | . Czar.       |
| Bogg, Andrew A                             |               |
| Gerrier, Wm                                |               |
| Aylesworth, Peter                          |               |
| Dewar, Samuel B.                           |               |
| Wardner, Geo. J.                           |               |
| Brodie, Neil.                              | . Clemens.    |
| Jell, R. W.                                | . Coronation. |
| Loades, G. A,                              | . Viking.     |
| Legate, Robt. P                            | . Cadogan.    |
| Legate, Robt. P. Maley, A. F.              | . Coronation. |
|  |               |

### St. Albert.

| Kelly, Patrick      |  |  |  |   |      |  |  |  |  |  |              |
|---------------------|--|--|--|---|------|--|--|--|--|--|--------------|
| Verstracte, Camille |  |  |  |   |      |  |  |  |  |  | Velleneuve.  |
| McLaughlin, C       |  |  |  | , | <br> |  |  |  |  |  | . Cardiff.   |
| Gagnon, Sam         |  |  |  |   |      |  |  |  |  |  |              |
| Piquette, J. A      |  |  |  |   |      |  |  |  |  |  | .St. Albert. |

### Stettler

| Barrett, E. W                | Kanata.     |
|------------------------------|-------------|
| Brace, Henry                 |             |
| Critchley, H. D.             |             |
| Ducloy, Chas. E.             |             |
| Grose, J. C.                 |             |
| Gray, W. B.                  |             |
| Harrington, W. W.            |             |
| Norton-Taylor, S             |             |
| Trenaman, J. C.              |             |
| Longson, H.                  |             |
|                              |             |
| Ricketts, E. R<br>Cope, G. R | Coneville.  |
| Blades, R. H.                | Gadshy      |
| Whiteoak, J. B.              | Steveville  |
| Berry, Edgar.                | Halkirk     |
| McKay, D. J.                 |             |
| Brown, G. L.                 |             |
| Gibbons, Oliver.             | Erekino     |
| Dannia Walton                | Rig Valley  |
| Dennis, Walter               | Stottler    |
| Malott, L. A.                | Lake Thelma |
|                              |             |
| Moyer, John H                | Mungon,     |
| Russell, Jas                 | Hand Hills  |
| Wilson, J. A.                | mand mins.  |

# Stony Plain.

| Butchart, J. B      | Inga.                |
|---------------------|----------------------|
| Bennett, Jno        |                      |
| G : Ob              | Chaminia             |
| Currie, Chas        | Gramma.              |
| Deans, S. J         | Brightbank.          |
| Groat, E. A         | Spruce Grove Centre. |
| Hoffman, M. L.      | . Tomahawk.          |
| Hagen, S. C.        | Winterburn           |
| Tz 11 Tr            | Caldan Calles        |
| Kuhl, Henry         |                      |
| MacGillycuddy, V. J |                      |
| McDonald, Dan       | Mewassin.            |
| Pinchbeck, E        | Winterburn.          |
| Jenkins, F. J.      | Tomahawk             |
| Jehnins, F. J       | Change Bloin         |
| McKinley, Murd      | Stony Flain.         |
| Asperson, Andrew    | . Stony Plain.       |
| Sims, Elmer         | Inga.                |
| Reid, Jas           |                      |
| Fleming, E.         | Woodband             |
|                     |                      |
| Umbach, Israel      |                      |
| Estock, Jas         | Inga.                |
| Mills, Fred S       | . Onoway.            |
| Porter, Geo. R      | Keenhills.           |
| Atkinson, B. W.     | Spruce Grove Centre  |
|                     |                      |
| Bates, Arthur E     | . Inga.              |
|                     |                      |

### Sturgeon.

| Bailey, RNamao.                 |
|---------------------------------|
| Gibbons, W. R Battenburg.       |
| June, RobtNamao.                |
| Kennedy, John Edmonton.         |
| Milligan, John                  |
| Mason, WmBon Accord.            |
| Russell John Athabasca Landing. |

| Tratt, O. T.                | Lemoureur             |
|-----------------------------|-----------------------|
| Trotter, J. R               | Lamourany             |
| whiteley, wm. E             | Landing Road Edmonton |
| Watt, W. W. Florence, A. S. | Northbank             |
| McLaughlin, C.              | Cardiff               |
| Walker, C. A                | Athabasca Landing.    |

### Strathcona.

| Ellet, F. S                               |
|---|
| Inkster, Jas Stratheone                   |
| Lackey, Hamilton Fast Clover Box          |
| Smith, J. E Strathcone                    |
| Stephens, W. H. Strothoons                |
| Wikinson, W. F                            |
| Adamson, Lawrence "Allanwood" Streethoone |
| McDaggall, J. W Stratheone                |
| Strathcone                                |
| Dunn, J. A Strathcone                     |
| Murphy, C. H Strethcorp                   |
| Shields, W. K                             |
|   |

# Vegreville.

| Cookson, Geo., Jr                                |    |
|--|----|
| George A. H. Vegreville.                         |    |
| George A H                                       |    |
| George, A. H. Lavoy.<br>Hallberg, E. R. Chipman. |    |
| Loades G A                                       |    |
| Loades, G. A. Viking.                            |    |
| Lavoy, Jos. Lavoy. Morton, Hubert. Lavoy. Lavoy. |    |
| Morrotton, HubertLavoy.                          |    |
| NOIH, JOS. A                                     |    |
| Loberge, C. C                                    |    |
| Shandro Shandro                                  |    |
| Mundara  |    |
| Vegreville                                       |    |
| Whyte, Dash Holdon                               |    |
| Watson, Andrew Chinman                           |    |
| Wynn-MacKenzie, E. H                             |    |
| Gladena, Augustus                                |    |
| ynn, Percy E                                     |    |
| Calvert S W                                      |    |
| Calvert, S. W                                    |    |
| Moody, A. R. Beaver Lake                         | 9. |
| Stewart, R                                       |    |
| McCallum, J. S                                   |    |
| Holdon   |    |
| Vegreville                                       |    |
| Pylov  |    |
| Ewanchuk, Stifan                                 |    |
|  |    |

# Vermilion.

| Armitage, W. F.  | Viennville                             |
|------------------|--|
| DOOMEI, NOAD     | Mannyilla                              |
| Graham, J        | V:1:                                   |
| Philbrick, D. L. | ····· verminon.                        |
| West E V         |  |
| West, F. V       | · · · · · · Vermilion                  |
| McCormick, Wm.   | ····· Tyrole.                          |
| McGalman II C    | . T . C                                |
| Good, W          | Vormilian                              |
| Campbell, A.     | Innisfas                               |
| Burnham, Asa A.  | True.                                  |
|                  | ······································ |

### Victoria.

| Krebs, JohanFort Saskatchewan.  |   |
|---------------------------------|---|
| Libbey, J. J Fort Seeketcherren |   |
| Summons, E                      | 1 |
| Coxiord, A. W I amont           | • |
| Wester Woster                   |   |
| Kittlitz, Ed                    |   |
| Roid I H                        |   |

#### Wetaskiwin.

| Barnard, A. H      | Wetaskiwin.   |
|--------------------|---------------|
| Dickson, A. R.     | . Wetaskiwin. |
| Cherrington, R. R. | . Wetaskiwin. |
| Swanson, C. H.     | . Wetaskiwin, |
| Wood, A. G.        | Wetaskiwin.   |
| Wilcher, John G.   |               |
| Young, R. C.       |               |
| Stelfox, Henry     | Battle Lake.  |
| Aklund, David      |               |
| Larson, Ludvisk, C | Minnihik.     |

#### II.—PREVENTION OF PRAIRIE FIRES.

I am pleased to report that in 1911 there were very few destructive fires; in fact there were very few fires of any kind, the natural result being that there were very few convictions for infractions of the Prairie Fires Ordinance. The number of convictions secured and the penalties imposed for the years 1907 to 1911 inclusive, are as follows:

| NO   | OF CONVICTION | ONS TOTAL | AVERAGE |
|------|---------------|-----------|---------|
|      | REPORTED      | FINES     | FINE    |
| 1907 | 33            | \$741.00  | \$22.45 |
| 1908 | 105           | 1,570.00  | 14.95   |
| 1909 | 94            | 1,796.00  | 19.10   |
| 1910 | 247           | 4,247.38  | 17.20   |
| 1911 | 33            | 565.00    | 18.25   |

The following is a list of the voluntary fire guardians in the province arranged by constituencies:

#### Alexandra.

| Roberts, Ben                |
|-----------------------------|
| Sheridan, T. F              |
| Tonkin, E. A                |
| Wilson, R. A Dewberry.      |
| Skinner, F Dewberry.        |
| Websdale, C Dewberry.       |
| East, C Greenlawn.          |
| Babcock, Edward S Lea Park. |

#### Calgary.

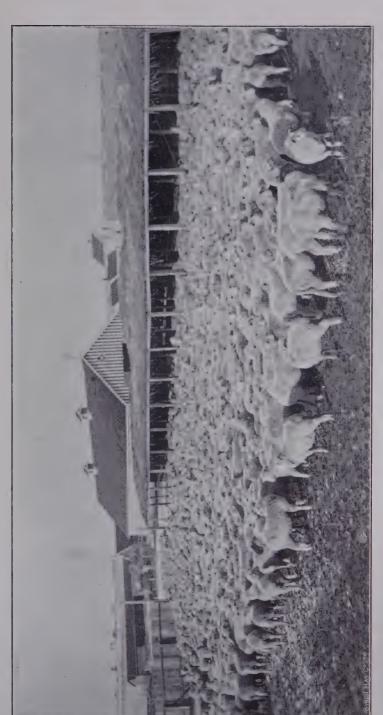
| Carter, D            |
|----------------------|
| Campbell, Dan W      |
| Grahame, G. M        |
| Johnston, Geo        |
| Moss, Sidney H       |
| Moss, WalterCalgary. |
| McIntosh, J. G       |
| McIntyre' R. W       |
| Thompson, W. A       |
| Wheeler, A. O        |
| Woolliams, W. D      |

#### Camrose.

| Barber, Jno        | . Iron Creek.Spring Lake |
|--------------------|--------------------------|
| Bowie, Geo         | Ferry Point.             |
| Hodgson, Francis J | New Sarepta.             |
| Johnston, Chas     | . Edberg.                |
| Roner Ernest       | Rittorn Loko             |

#### Claresholm.

| Ctaresnotm.  |
|--|
| Lyndon, W. ALyndon.  |
| Cardston.  |
| Ashe, Percy G  |
| Cochrane.  |
| Bell, E  |
| Didsbury.  |
| Evans, Arthur. Three H <sup>i</sup> lls. McLeod, Jno. Sunnyslope. Shantz, J. D. Didsbury.  |
| Edmonton.  |
| Hayes, J. O'Neill Edmonton.  Mitchell, Arch Edmonton.  Tough, Jas Edmonton.  Turnbull, Hugo Edmonton.  McEachren, Donald Edmonton.   |
| Gleichen.  |
| Brown, W. W. Strathmore. Clark, John, Jr. Gleichen. Colquhon, O. G. Gleichen. Code, John B. Dorothy. Hicks, Thos. Lathom. Hardwick, Douglas Snake-Valley, Gleichen. Lawson, Jas. Dorothy. Maloney, A. S. Dunbow. Martin, Dan, Sr. Gleichen. McKinnon, L. Langdon. Strange, Alex Gleichen. Scoot, Harry. Gleichen.  |
| High River.  |
| Gervais, Romain Loma. Holmes, W. E. High River. Thorne, Wilfred B. Aldersyde. Carle, Richard P. Pekisko.   |
| Innisfail.   |
| Alford, R. P.         Pine Lake.           Bitton, Wm. Shirley.         Knee Hill Valley.           Collins, Harry F.         Pine Lake.           Duncan, Geo.         Innisfail.           Ellis, Geo. W.         Innisfail.           Fleming, Geo.         Penhold.           Gaetz, Fred W.         Pine Lake.           Morton-Bell, R.         Trenville.           Mustard, H. M.         Markerville.           Wynn, Robt.         Knee Hill Valley. |



SHEEP ON FEED AT CARSTAIRS.



# Lethbridge City.

| Duff, Duncan                  |  |  |  |   |  |  |  |  |  |  | <br>Lethbridge |
|-------------------------------|--|--|--|---|--|--|--|--|--|--|----------------|
| Tuner, Jas, Dixon.            |  |  |  |   |  |  |  |  |  |  | T -41.1 . 1    |
| Kennedy, Edward<br>Link, Adam |  |  |  |   |  |  |  |  |  |  | T -41.1 * 1    |
| Nash, A. C                    |  |  |  | ì |  |  |  |  |  |  | Lethbridge.    |

# Lethbridge District.

| Cox, E                                       |
|--|
| Depew, Warren Raymond.                       |
| Furman, Jno. Raymond. Kenny, F. Grassy Lake. |
| Kenny E Grassy Lake.                         |
| Kenny, E. Pothole, Lethbridge.               |
| Down and                                     |
|  |
| Pundotte                                     |
| otecu, Flank U.                              |
| Sweet Veller                                 |
| Jones, Either.                               |
| Connor, W. F                                 |
| Invalues, Robb                               |
| Doan, R                                      |
| Darney.                                      |
|  |

#### Leduc.

| Blocker, Wm. Leduc.                              |
|--|
| Bradner, Henry Leduc.                            |
| Clifford, Frank. Conjuring Creek.                |
| Fetherston, S. W. Conjuring Creek.               |
| Johnson, S. H. Leduc.  Montinger Ches. Beaumont. |
| Mortimer Ches. Beaumont.                         |
| Mortimer, Chas Leduc.                            |
| McEwan, J  |
| Ohmwille   |
| Sanders, Nels AOhrnville.                        |

#### Lacombe.

| Burns, Ed   | on   |
|---|------|
| Burns, Ed. Lamert Burgess, Jas Lamert Capron, Jos             | on.  |
| Capron Los  | on.  |
| Capion, 308,  | alds |
| Clive   |      |
| Hickling, Horace. Alix.                                       |      |
| Hilated Cond. Alix.   |      |
| Hilstad, Carl Bentley   | 7.   |
| In this pily, 11. A   |      |
| Paisley, S. W. Canyon   | be.  |
| Pinnell Chag  |      |
| Pinnell, Chas. Carryon Righards, Albert T. Alix.              |      |
| Itichards, Ameri I I seeml                                    | 20   |
| Tees, James   | Je.  |
| Toos W F  |      |
| Tees, W. E. Tees. Walters, Jas. L. Tees. Whiteast E. H. Tees. |      |
| Walters, Jas. L.  |      |
| Whiteside, F. H. Lamerte                                      |      |
| Lamerte   | on.  |

# Lac Ste. Anne.

| Musselman, | D | Onoway.  |
|------------|---|----------|
| winte, n   |   | Wabamun. |

### Macleod.

| Cochrane, Wm.   | F  | Magland  |
|-----------------|----|----------|
| Gardner, U. W.  | FG | Mosland  |
| Maryfield, Fred | T  | Macleod. |

#### Medicine Hat.

| Borthwick, Wm.                    | Medicine Hat     |
|-----------------------------------|------------------|
| Hargrave. W. H                    | TX7 - 1 - 1      |
| Marwick, Geo<br>McLaughlin, J. D. | M - 1: -: - TT / |
| McLaughin, J. D                   | Madiaina Hat     |

| Boyd, Robt. Medicine Hat. Little Wm. J. Medicine Hat. Hargrave, J. G. Walsh. Hooper, Sidney. Manyberries. McClain, Fred. Medicine Hat.  |
|---|
| Nanton.   |
| Narrish, J. D Nanton.   |
| Olds.   |
| Distman, C.         Olds.           Kembry, Raymond A.         Olds.           Moore, C. Wm.         Tolman.           Wood, Chas. T.         Red Lodge.           Wyndham, W. T.         Huxley.           Brewster, J. I.         Calgary.  |
| Okotoks.  |
| Bannister, A. E.Davisburg.Fraser, J. A. W.Jumping Pond.Mickle, Chas. W.Spring Bank.Woolley-Dod, A. G.Midnapore.   |
| Ponoka.   |
| Ravensburg, O. C. Asker. Tyner, Robt. E. Ferrybank, Ponoka  |
| Pincher Creek.  |
| Connolly, Alf. T.Pincher Creek.Eddy, W. T.Cowley.Godsal, F. W.Cowley.Porter, Geo.Livingstone.Smith, Harold J.Pincher Creek.   |
| Pakan.  |
| Thompson, Lewis Pakan: Flamand, F Brosseau. DuBord, E Durlingville.   |
| Red Deer.   |
| Fiske, Robt. E.         Hillsdown.           Fisher, F. B.         Red Deer.           Gaetz, Fred.         Red Deer.           Hoskin, Thos.         Red Deer.           Martin, Angus.         Red Deer.           McKuchney.         Red Deer.           Reinholt, J. F.         Red Deer.           Wilson, John         Evarts.           Frid, A. J.         Pitcox.           Leish, James.         Pitcox.           Hollender, T.         Evergreen.           Gerber, W.         Evergreen.           Kneeshaw, Percy         Gaetz Valley. |
| Rocky Mountains.  |
| Bruneau, Jas. B. Blairmore. Brewster, Wm. H. Banff.   |
| St. Albert.   |
| Hughson, W. S. Manawan. Hall, Thos. Manawan. Verstracte, Camille. Villeneuve.   |

## Stony Plain.

| Knapp, H. H. Winterburn.  Mills, Chas Inga.  McDonald, J. L. Stoney Plain.  Steffer, Ed Spruce Grove Centre.   |  |
|--|--|
| Sturgeon.  |  |
| Gibbons, W. R  |  |
| Strathcona.  |  |
| Ellet, Chas. C. Strathcona.  McAllister, Geo. Strathcona.  Townsend, Ed. Strathcona  |  |
| Stettler.  |  |
| Du Bois, J. F         Hand Hills.           Ellwood, Jas.         Gopher Head.           Lensman, Gus.         Mayvrille.           Lockwood, B.         Hand Hills.           Lund, N. A.         Hand Hills.           Peters, Wm. W.         Notre Dame de Savoy.           Patterson, Geo. W.         Red Willow.           Savage, J. G.         Delia.           Davison, G. W.         Big Valley.           Brace, Henry.         Britain. |  |
| Sedgewick.   |  |
| Brightland, E. W. Talbot.  Eastmead, W. Caseleyville.  Reed, W. E. Caseleyville.  Seeman, Ludwig H. Vallejo.  Weffer, N. B. Caseleyville.  Jones, H. M. Ethelwyn.  Grant, John. Ethelwyn.  |  |
| Vegreville.  |  |
| Borwick, John Whitford. Richardson, Silas Whitford. Brunton, C. H Ryley.   |  |
| Vermilion.   |  |
| Talbot, W. C. Irma.  Weir, A. M. Mannville.  Campbell, A. Innisfree.  Good, Wm. Vermilion.   |  |
| Victoria.  |  |
| Bevington, Chas. E. Fort Saskatchewan. Belcher, Henry Wostok. Dzivenka, Jos Wostok. Halkow, John Wostok. McGall, David Star. Simmons, W. L. Fort Saskatchewan. Nemirsky, Theo Wostok.  |  |
| $We taskiwin. \  \  $  |  |
| Newton, HaydonWetaskiwin.  |  |

## Respectfully submitted,

Benj. Lawton, Chief Game and Fire Guardian.

## 5.—REPORT OF THE POULTRY SUPERINTENDENT.

SIR,—I beg to submit the annual report of the Poultry Branch of the Department for the year 1911.

#### GENERAL.

I am pleased to state that the general interest manifested has been even more pronounced than in past years. This is noticeable in the enquiries received for stock and eggs of pure bred poultry of all varieties. This class of stock is fast replacing the scrub stock which predominated when this branch of the department was organized. Enquiries are not confined to the province of Alberta for constant application is received from the provinces of Saskatchewan and British Columbia. This I take as an indication that the work carried on in Alberta is attracting the attention of the neighbouring provinces.

The increased number of enquiries with reference to the housing of poultry is a good indication that the people generally are giving more attention to the housing of poultry. This adds materially

to success in poultry raising.

Further advancement may be noted in the number of commercial poultry plants that are being established by experienced poultry raisers who are operating on strictly practical lines. Again there is a much greater interest noted among farmers in all parts of the province who are recognizing the value of their flocks as a revenue producing part of the farm work, and are keeping pure bred poultry of good quality, and are making an effort to produce high class products.

#### MARKETS.

While there has been a substantial increase in the supply, the prices have remained firm and if anything in advance of former years. There is no danger of an over-supply of poultry products for many years to come, but should there at any time be a surplus to dispose of the province of British Columbia offers a splendid market.

The dealers and wholesalers report that the poultry products now being placed on the market are of much better quality than formerly, notwithstanding there is still a large quantity that is not a credit to the producer. There are still many who do not flesh their birds properly which is a decided loss, particularly when suitable grain for fleshing is plentiful. Again many fail to fast and dry pluck. The unsightly condition of the birds resulting from the full crop and being scalded for plucking detracts from their appearance and greatly reduces their market value.

The same lack of attention is noticed in the marketing of eggs. Small, dirty and stale eggs are too evident in the markets. The small undersized eggs should be sorted from the larger ones and sold at their value. Dirty eggs are an indication of unsanitary conditions. Stale eggs are undesirable in the market and seriously effect the market price generally. We receive many complaints from country points that the prices quoted for strictly fresh eggs

during the winter months in the larger towns is much higher than those received locally. This is largely due to the fact that many held eggs are taken to the local store with the fresh ones and the local dealer has no alternative but to forward the eggs received classed as held eggs and these are placed in competition with cold storage eggs and command no better price.

During the past year I have strongly advocated the organizing of local poultry associations to work in sympathy with the co-operative movement now under way in the other provinces of the

Dominion.

Such local organizations producing and placing on the market only high class products would to a great extent overcome the discrepancies that exist at present. The leading dealers of the province advise me that they are prepared to encourage such organizations by paying a premium price on such produce.

## STANDARD BRED POULTRY AND EXHIBITIONS.

While there has been a marked improvement in pure bred utility poultry there has been an equal improvement in the numbers and quality of exhibition poultry. One has only to visit any of the fairs held by the older agricultural societies to note the exceptionally large increase in the numbers of entries, in many cases numbering hundreds where three or four years ago a score of birds would have been exhibited and these of a much inferior quality.

Many agricultural societies have erected suitable houses, fitted with exhibition coops, in which to exhibit their poultry. More extended prize lists are being introduced by way of encouragement

to the exhibiting of standard bred poultry.

Special mention may be made of the winter poultry shows, particularly those held at Lethbridge, Calgary and Edmonton the latter two having about 1,000 entries at the last shows held. These exhibitions have developed so rapidly that they have outgrown the grant of \$300 provided in the original Agricultural Societies Ordinance. Believing this a handicap to the development of the pure bred poultry industry, at the request of members of the poultry associations recommendation was made to the Government that an increased grant be given to relieve the financial obligations which the associations hitherto depended on public subscription to meet. This recommendation has been acceded to and provision made whereby poultry associations expending \$500 or more in prize money will receive a grant of sixty-six and two-thirds of the actual prize money paid out.

## OFFICE AND EDUCATIONAL WORK.

The office and educational work during the year has been very similar to that of former years. The educational work has largely been undertaken in connection with that of the Superintendent of Institutes and will no doubt be fully reported by him. A large number of poultry meetings were held in various districts of the province during the year and the reports show that attendance and general interest was good.

Special educational work was done in connection with the short course schools held at Macleod, Innisfail and Vermilion. At each of these schools the lectures and work given covered poultry houses breeding, feeding and caring for the flock; egg production, trap nest selection, feeding for eggs, incubation, rearing, fattening and marketing, and other matters associated with poultry keeping.

In keeping with the general advancement of the work the correspondence in the office has also been on the increase. Letters are now received from other countries, making enquiry regarding the possibilities of poultry raising in this province, the price of stock and eggs, land, buildings, equipment, etc. There is also a large correspondence with those enquiring where they can secure stock and eggs, and I have at all times tried to place them in communication with breeders in their neighbourhood. From letters received it would appear that there has been a good deal of disease prevalent throughout the province, and in fact the west generally. The diseases most common are the various forms of roup, tuberculosis, and the different forms of cholera. I have endeavoured to give the best remedies for the different diseases, which I often find are the result of unwholesome foods, foul runs, and damp, unsanitary quarters.

Further educational work was accomplished by the publication of a new poultry bulletin, Bulletin No. 2, "Practical Poultry Keeping." This bulletin is a revision of the one published in 1907 and deals with the following subjects: The Poultry Industry, Poultry Houses and Fixtures, Commercial Poultry Plants, Establishing and Developing a Flock, Strain Building for Egg Production, Hatching, Brooding and Rearing, Fattening, Killing and Marketing, Winter Egg Production, Poultry for Exhibition, Diseases and Parasites. Many of the illustrations are reproduced from photographs having

reference to conditions within the province.

Since the publication of this bulletin there has been a large enquiry for same and no doubt it will do much to assist the poultry work of the province.

#### THE POULTRY BREEDING STATION.

The work of the poultry breeding station during the year has been extensive particularly in experimental work. There has been an unusually large number of visitors, and a good deal of the time of the manager in charge has been given to supplying these visitors with information relative to all departments of the work.

The demand for eggs during the hatching season for incubation purposes has been unusually large. As during the provious season, in order that the eggs from the plant might be distributed as far as possible, the number sent each applicant was limited to fifty, yet the demand was beyond the capacity of the plant and there were thousands of eggs applied for that could not be supplied.

Some idea of the popularity of the breeds can be seen by the following list which shows the number of eggs of the different breeds

on order on March 31, 1911:

| Barred Rocks                         | 2,739 |
|--------------------------------------|-------|
| White Wyandottes                     | 1,646 |
| Buff Orpingtons.  Rhode Island Reds. | 1,633 |
|                                      | 861   |
| White Leghorns                       | 517   |
| White Rocks                          | 284   |
| Silver Wyandottes                    | 173   |
| Black Orpingtons                     | 74    |
| Golden Wyandottes                    | 48    |
| Columbia Wyandottes                  | 46    |
| Partridge Wyandottes                 | 35    |
| Total                                | 8,056 |

It will be noticed by this how great the demand was even before the hatching season commenced. It will also be noticed that the leading varieties of the utility breeds, which are recommended by

the department for the farm, have been in the greatest demand. Barred Rocks appear to be most in demand of these breeds. Buff Orpingtons and White Wyandottes are about equal; Rhode Island

Reds are next, followed by White Leghorns.

While the other varieties may be considered equally as good as utility birds, it is not the intention to continue keeping them, as it is thought more advisable to keep only such breeds as are most in demand by the farmers, particularly as the object of the plant is to assist the farmers in improving their flocks and while there are a number of high class birds in the various pens no attempt is made to produce exhibition stock. There are many fanciers who are giving this matter attention.

The trap nest work formerly conducted was discontinued this year as it was felt that the possibility of winter egg production had been fully demonstrated in former years, and it was found that the birds who gave the best returns in winter laying were not likely to be as prolific in the spring when a good supply of eggs are needed for hatching purposes.

The results of hatching at the plant were very good this season and from reports received it would appear that generally speaking little difficulty was experienced with the hatching season of 1911.

However, complaints were general as to the unsatisfactory conditions for rearing, many reporting that practically all the chicks hatched died. White diarrhoea appeared to be a general complaint. A disease that seems to be spreading all over the continent and one for which there is apparently no remedy.

#### COLD BROODING.

In 1910 some experiments were undertaken with cold brooding and the results being satisfactory this system was undertaken on a much more extensive scale during the rearing season of 1911.

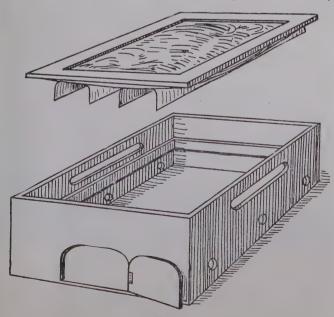


Fig. I.

The cold brooders as shown in Fig. I used in connection with this work are 18 inches by 20 inches and 8 inches deep. In front of the brooder is a door 4 by 6 inches, and on each side of the brooder two and one-half inches from the bottom and at equal distances apart three one-inch holes were bored for ventilation. below the top of the box and on the same side as the auger holes a strip 1 inch by 8 inches is cut out and the opening covered with The top of the box consists of a light wooden frame covered with cotton which is bagged to take the shape of the nest. Over this is placed three or four thicknesses of cotton batten, the number depending on the weather. The bottom of the brooder is filled with chaff to within 2½ inches from the cotton, the object being to have space only for one chick deep to prevent them from crowding on top of each other. To prevent further crowding the chicks are separated by three or four strips of cloth fastened to the cotton as shown in Fig. I. These strips should be put in so that they run lengthwise of the brooder. About forty chicks were placed in each brooder and kept there for two or three weeks. When they became too large for this brooder they were divided and placed in larger brooders of the same pattern. These larger brooders are placed in the regular colony brooder houses.

#### BROODER HOUSE.

A nursery for rearing purposes was constructed over the incubator cellar as illustrated in Fig. II.

Glass windows were placed on the south side of the brooder house and hinged at the bottom to open inward, cotton being tacked to the window frame and sash, in order that the air might enter above without causing a direct draught on the young chicks. The nursery floor was divided into pens by light frames covered with a fine mesh wire and hooked together, that the partitions might be easily moved for cleaning purposes. A brooder was placed in each run of 3 feet by 6 feet.

It is usually necessary to teach the young chicks to return to the brooder for a short time until they become familiar with the source

of heat supply.

The chicks are placed direct from the incubator in runs on the south side of the nursery where they receive plenty of light and a certain amount of heat from the sun through the glass. They are kept here until ten days or two weeks old, or until the runs are required for a new hatch, when they are moved to runs at the north side of the nursery and kept there until ready to be moved to the colony houses.

Two styles of colony houses are used in connection with the work. The dimensions, 6 by 8 feet, are the same in both styles. In Fig. III the house is on 2 by 4 scantling and floored. The door is on the right side and ventilation and light are supplied on the south side through cotton placed on a frame and hinged so as to open when required. These houses are light in weight and can readily be drawn to any desired place when a new run is required.

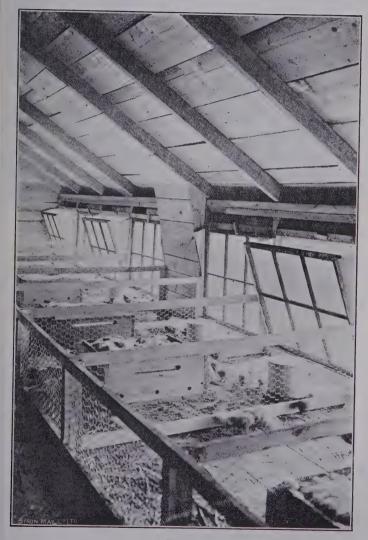


Fig. II

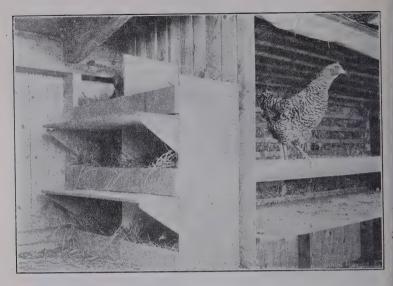


FIG. III. OLD STYLE.

The colony house shown in Fig. IV is without floor and constructed in five pieces in a knock down form and bolted together. It can be readily taken down and stored for winter if necessary. The upper part of the front of this house is enclosed by wire with frames covered with cotton as windows to be used on cold or windy weather. One half of the front is hinged and used as a door. No floor is used with this house although one can be constructed if so desired.

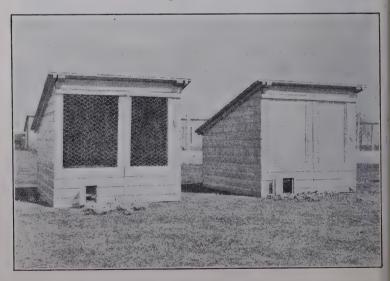


FIG. IV. NEW STYLE.

## EXPERIMENTS IN HOUSING.

During the winter extensive experiments were made with the object of ascertaining the temperatures of the various houses. These experiments will be of special interest, particularly as they were made at the most northerly poultry experiment station in Canada. Full particulars are given in the new poultry bulletin, so only a brief account is given here. The houses in which the records were taken were constructed as follows:

No. 1 was constructed with clapboard and paper on the inside

of studding and clapboard, paper and drop siding on the outside.

No. 2 of one thickness of V-joint lumber with cotton front.

No. 3 of one thickness of V-joint lumber with glass window.

No. 4 with one thickness of V-joint lumber with cotton window.

In each of these houses a crop curtain was used in front of the roosts.

For comparison of the different houses during cold weather the maximum and minimum reading of the thermometer for January 13, the coldest day of the winter, may be used. The maximum reading was 20 degrees below zero while the minimum was 55 below zero.

No. 1 house recorded a maximum of 7 and a minimum of 18 degrees below zero, while house No. 2 recorded a maximum of 11 and a minimum of 18 below, which was slightly in favour of the cotton house.

Nos. 3 and 4 represent two houses exactly alike with the exception that No. 4 has a cotton window while No. 3 has a glass window. On the above date the house with the glass window recorded a maximum of 2 degrees below zero and a minimum of 40 degrees below zero, while the house with the cotton window recorded a maximum of 4 and a minimum of 26 below zero. In comparing the temperatures of these houses there was thus a difference of 6 degrees in the maximum and 14 degrees in the minimum in favour of the house with the cotton window.

However, during the mild weather of early spring towards the end of February there was at times a slight difference in favour of the house with the glass window. This was no doubt due to the fact that the sun's rays penetrated the glass and warmed the pen.

Table of Temperatures for the Various Styles of Houses Winter 1910-11.

For the last half of the month of December.

| T  | Outside        |   | House No. 16   |  | House No. 11                                      |   | House No. 13                                   |                | House No. 1      |                |
|--|----------------|---|----------------|--|---|---|--|----------------|------------------|----------------|
| DATE   | Max.           | Min.  | Max.           | Min.   | Max.  | Min.  | Max.   | Min.           | Max.             | Min.           |
| 15<br>16                                       |                |   | 42<br>55       | 34<br>36                                       | 46<br>48  | 38<br>36  | 40<br>46                                       | 30<br>31       | 40<br>45         | 28<br>27       |
| 17<br>18                                       | <br>46         | 35  | 43             | 34<br><br>40                                   | 49<br><br>48                                      | 39  | 46   | 26<br>38       | 38<br><br>42     | 26             |
| 20<br>21                                       | 48             | 26  | 37             | 40   | 52  | 34  | 51   | 30             | 48<br>34         | 31             |
| $22 \dots \dots 23 \dots \dots 24 \dots \dots$ | 38<br>20<br>36 | $\begin{bmatrix} 10 \\ 6 \\ 14 \end{bmatrix}$ | 35<br>36<br>36 | $\begin{bmatrix} 24 \\ 20 \\ 20 \end{bmatrix}$ | $ \begin{array}{c c} 38 \\ 22 \\ 40 \end{array} $ | $\begin{array}{c c} 18 \\ 20 \\ 23 \end{array}$   | 34<br>22<br>38                                 | 14<br>15<br>22 | 26<br>38         | 18<br>20       |
| $25.\ldots$ $26.\ldots$                        | 38<br>36       | 16<br>10                                      | 40<br>38       | 20<br>22                                       | 44<br>40<br>36                                    | $ \begin{array}{c c} 26 \\ 20 \\ 18 \end{array} $ | 42<br>40<br>38                                 | 24<br>20<br>10 | 40<br>40<br>- 36 | 26<br>20<br>10 |
| 27<br>28<br>29                                 | 18<br>6        | 0<br>-2<br>6                                  | 40<br>26<br>20 | 20<br>15<br>5                                  | $\begin{array}{c c} 50 \\ 25 \\ 4 \end{array}$    | 6 2   | $\begin{vmatrix} 36 \\ 20 \\ 20 \end{vmatrix}$ | 8 2            | 40<br>18         | 10<br>-5       |
| 30<br>31                                       | 3 4            | -11<br>-24                                    | 18<br>16       | 10 4   | 12  | 6   | 10   | 0 -8           | 6 0              | -4<br> -9      |

Table of Temperatures for the Various Styles of Houses Winter  $1910{\text -}11.$ 

## For the month of January:

|      | Out  | side | House | No. 16 | House | No. 11                                   | House | No. 13 | House | No. 12 |
|------|------|------|-------|--------|-------|--|-------|--------|-------|--------|
| DATE | Max. | Min. | Max   | Min.   | Max.  | Min.                                     | Max.  | Min.   | Max.  | Min.   |
| 1    | -16  | -42  | 6     | -6     | . 18  | -16                                      | 2     | -26    | . 2   | -28    |
| 2    | 20   | -38  | 20    | -4     | 22    | -14                                      | 22    | -22    | 20    | -28    |
| 3    | 42   | 15   | 40    | 20     | 50    | 18                                       | 40    | 20     | 40    | 20     |
| . 4  | 42   | 9    | 33    | 26     | 41    | 24                                       | 34    | 20     | 34    | 24     |
| 5    | 44   | -11  | 37    | 26     | 39    | 26                                       | 37    | 24     | 39    | 22     |
| 6    | 32   | -10  | 39    | 31     | 34    | 34                                       | 40    | 24     | 40    | 24     |
| 7    | 28   | 17   | 38    | 28     | 28    | 28                                       | 32    | 24     | 30    | 22     |
| 8,   | 33   | -10  | 30    | 28     | 36    | 6  | 30    | 6      | 29    | 4      |
| 9    | -3   | -28  | 1     | 0      | 2     | -6                                       | 11    | -12    | 10    | -20    |
| 10   | -17  | -33  | 1     | -2     | 24    | -15                                      | . 0   | -16    | -3    | -16    |
| 11   | -32  | -42  | 17    | -2     | 15    | -10                                      | 11    | -18    | 8     | -20    |
| 12   | -33  | -44  | 17    | -10    | 11    | -18                                      | 11    | -26    | 13    | -26    |
| 13   | -20  | -55  | 7     | -18    | 11    | -18                                      | ` 4   | -26    | -2    | -40    |
| 14   | 0    | -43  | 20    | 11     | 27    | -20                                      | 21    | -27    | 17.   | -30    |
| 15   | 8    | -20  | 20    | 4      | 22    | -2                                       | 18    | -7     | 12    | -11    |
| 16   | -2   | -17  | 18    | 7      | 22    | -2                                       | 7     | -5     | 10    | -4     |
| 17   | 2    | -17  | 27    | 15     | 27    | 0  | 10    | -6     | 14    | -6     |
| 18   | -1   | -20  | 27    | 2      | 25    | -5                                       | 10    | -12    | 10    | -10    |
| 19   | -2   | -10  | 20    | 8      | 18    | 1  | 6     | -4     | 14    | -6     |
| 20   | 10   | -22  | 20    | -2     | 16    | 0.                                       | 12    | -5     | 16    | -6     |
| 21   | 10   | -16  | 24    | 14     | 19    | 2  | 17    | -1     | 24    | -2     |
| 22   | 32   | -4   | 22    | 17     | 34    | 11                                       | 35    | 6      | 35    | 6      |
| 23   | 28   | 1    | 30    | 10     | 30    | 9  | 29    | 10     | , 30  | 12     |
| 24   | 2    | -16  | 20    | 4      | 11    | 2  | 14    | -6     | 12    | -10    |
| 25   | -12  | -21  | 11    | 3      | 14    | $\begin{bmatrix} 2\\3\\-6 \end{bmatrix}$ | 2     | -12    | 0     | -13    |
| 26   | -15  | -26  | 15    | 2      | 16    | -6                                       | 4     | -14    | 2     | -16    |
| 27   | -10  | -40  | 3     | -12    | 4     | -8<br>1<br>2                             | 0     | 22     | 0     | -26    |
| 28   | -5   | -15  | 2     | 0      | 18    | 1  | 14    | -4     | 14    | -6     |
| 29   | 24   | -25  | 24    | -6     | 25    | 2  | 20    | -10    | 23    | -13    |
| 30   | 32   | -2   | 30    | 10     | 30    | 22                                       | 30    | -12    | 22    | 10     |
| 31   | 0    | -25  | 21    | -4     | 22    | -1                                       | 15    | -12    | 10    | -17    |

# Table of Temperatures for the Various Styles of Houses Winter 1910-11.

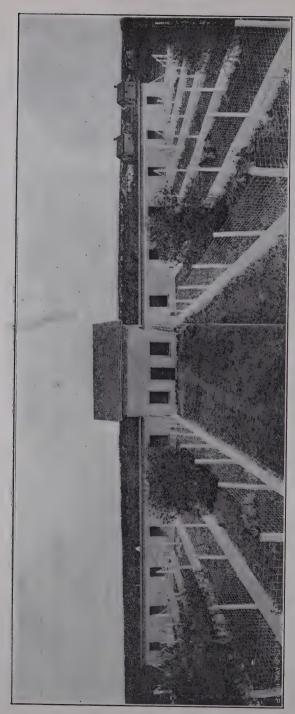
## For the month of February:

| DATE     | Out  | side     | House | No. 16          | House | No. 11 | House | No. 13    | House | No. 12  |
|----------|------|----------|-------|-----------------|-------|--------|-------|-----------|-------|---------|
| DATE     | Max. | Min      | Max.  | Min.            | Max.  | Min.   | Max.  | Min.      | Max.  | Min.    |
| 1        | 14   | -15      | 16    | -6              | 18    | 5      | 12    | -6        | 8     | -12     |
| 3        | -2   | -44      | 8     | -8<br>6         | 16    | -20    | 6     | -22       | 8     | 40      |
|          | 15   | -5<br>-4 | 20    |                 | 30 -  | 2      | 28    | -6<br>6   | 32    | -4<br>2 |
| <u>‡</u> | 18   | -4       | 31    | 16.             | 23    | 12     | 26    | 0         | 29    |         |
| 5<br>6   | 20   | -24      | 34    | 4               | 40    | -2     | 30    | -12       | 32    | -14     |
| 7        | 38   | -10      | 34    | 10              | 38    | 6      | 32    | -12<br>-3 | 36    | -14     |
| 8        | 30   | 6        | 40    | $\frac{10}{24}$ | 41    | 21     | 38    | -5<br>15  | 41    | 16      |
| 9        | 38   | 0        | 37    | 21              | 37    | 15     | 32    | 4         | 35    | 0       |
| 10.,     | 36   | 0        | 40    | 20              | 44    | 15     | . 44  | 6         | 44    | 10      |
| 11       | 46   | -4       | 37    | 22              | 38    | 18     | 34    | 4         | 34    | 0       |
| 12       | 26   | 6        | 42    | 23              | 48    | 18     | 44    | 8         | 44    | 10      |
| 13       | 30   | 9        | 40    | $\frac{23}{24}$ | 40    | 22     | 36    | 10        | 36    | 10      |
| 14       | 32   |          | 40    | 23              | 46    | 22     | 47    | 14        | 46    | 10      |
| 15       | 22   | -2<br>-5 | 40    | 26              | 38    | 22     | 42    | 8         | 34    | 8       |
| 16       | 19   | -22      | 32    | 20              | 34    | 14     | 28    | ŏ         | 32    | -40     |
| 17       | 24   | -22      | 34    | 8               | 32    | 0      | 33    | -14       | 34    | -12     |
| 18       | 27   | -4       | 32    | 7 .             | 40    | 0      | 38    | -12       | 40    |         |
| 19       | 28   | -6       | 42    | 14              | 38    | 10     | 44    | 0         | 38    | 2 -2    |
| 20       | 26   | -2       | 40    | 20              | 41    | - 14   | 38    | -2        | 33    | 4       |
| 21       | 30   | -4       | 38    | 16              | 40    | 14     | 36    | 2         | 32    | 6       |
| 22       | 48   | 4        | 44    | 18              | 42    | 14     | 44    | . 0       | 44    | 4       |
| 23       | 43   | 2        | 50    | 23              | 55    | 14     | 55    | 6         | 42    | 12      |
| 24       | 36   | 20       | 50    | 22              | 54    | 40     | 47.   | 34        | 50    | 35      |
| 25       | 25   | . 7      | 47    | 22              | 46    | - 21   | 42    | 23        | 46    | 30      |
| 26       | 35   | -4       | 34    | 22              | 27    | 23     | 34    | 12        | 35    | 17      |
| 27       | 44   | -4       | . 42  | 15              | 42    | 15     | 52    | 0         | 47    | . 5     |
| 28       | 44   | 11       | 49    | 18              | 55    | 16     | 49    | 16        | 52    | 20      |

Table of Temperatures for the Various Styles of Houses Winter 1910-11.

## For the month of March:

|      | Out  | side | House | No. 16 | House | No. 11 | House | No. 13 | House | No. 12 |
|------|------|------|-------|--------|-------|--------|-------|--------|-------|--------|
| DATE | Max. | Min. | Max.  | Min.   | Max.  | Min.   | Max.  | . Min. | Max.  | Min.   |
| 1    | 50   | 8    | 59    | 25     | 66    | 23     | 61    | 13     | 62    | 18     |
| 2    | 39   | 22   | 48    | 37     | 47    | 33     | 43    | 27     | 48    | 33     |
| 3    | 36   | 15   | 42    | 30     | 46    | 28     | . 38  | 20     | 40    | 24     |
| 4    | 28 - | 15   | 46    | 30     | 54    | . 28   | 44    | 20     | 45    | 22     |
| 5    | 30   | 9    | 40    | 22     | 42    | 20     | 40    | 12     | 44    | 16     |
| 6    | 36   | 10   | 46    | 22     | 41    | 22     | 40    | 14     | 44    | 16     |
| 7    | 26   | . 8  | 38    | 23     | 33    | 21     | 37    | 20     | 40    | 17     |
| 8    | 42   | 6    | 34    | 20     | 36    | 20     | 34    | 10     | 34    | 16     |
| 9    | 32   | 11   | 37    | 25     | 40    | 23     | 40    | 16     | 36    | 20     |
| 10   | 54   | 15   | 52    | 23     | 62    | 28     | 60    | 18     | - 56  | 20     |
| 11   | 41   | -5   | 42    | 18     | 50    | 16     | 44    | 2      | 42    | 4      |
| 12   | 55   | 18   | 51    | 27     | - 56  | 28     | 55    | 20     | 53    | 23     |
| 13   | 57   | 28   | 56    | 36     | 61    | 37     | 58    | 30     | 58    | 34     |
| 14   | 32   | 13   | 42    | 21     | • 48  | 24     | 42    | 17     | 44    | 17     |
| 15   | 38   | 23   | 52    | 43     | 54    | 40     | 53    | 40     | 54    | 40     |
| 16   | 51   | 28   | 58    | 38     | 58    | 26     | 45    | 30     | 46    | 35     |
| 17   | 56   | 35   | 56    | 27     | 52    | 36     | 58    | - 22   | 55    | 25     |
| 18   | 52   | 37   | 48    | 36     | 46    | 33     | 50    | 32     | 50    | 35     |
| 19   | 60   | 38   | 62    | 43     | 63    | 38     | 64    | 40     | 65    | 42     |
| 20   | 62   | 24   | 64    | 37     | 68    | 38     | 62    | 28     | 64    | 34     |



CONTINUOUS STYLE OF POULTRY HOUSE AS USED AT THE PROVINCIAL POULTRY PLANT.

As previously stated no attempt was made to secure winter eggs, yet in all the houses eggs were produced throughout the winter, and had the birds been fed for egg production I feel sure they would have made a good record. One thing noticeable was the fact that in the colder houses, particularly the cotton front the birds all had

a healthy, thrifty appearance.

While there are many who would no doubt be afraid to house their birds in the colder houses, I know of many in the province who are doing so with satisfactory results. From personal observation of this experiment I am convinced that a house cheap in construction and satisfactory in every way can be readily made from a combination of the plans of the three houses used in the experiment.

That is, the walls constructed of two thicknesses of lumber with paper between, the windows made with the lower half of the sash with glass and the upper half of cotton. A house of this style constructed with proper attention to ventilation, should meet the

requirements of the climate of any district in the province.

#### VENTILATION.

Special attention was given to the various systems of ventilation in order to avoid the accumulation of frost on the walls and roof of the houses, which is always found in a poorly ventilated house. Two systems were used. In the apex roof poultry house, strips of board were placed on the plate, three or four inches apart and the apex partially filled with straw. In both ends of the apex an opening 18 inches square was made to allow a circulation of air through the straw. In the other houses ventilation was supplied through burlap or factory cotton placed over windows at the opposite ends of the house. Both these systems were found very satisfactory.

Respectfully submitted,

A. W. Foley, Poultry Superintendent.

## 6.—REPORT OF THE RECORDER OF BRANDS.

SIR,—I have the honour to submit the following report on the work of this branch of your department for the year ending December 31, 1911:

During the year 1,538 horse and 1,280 cattle brands were allotted, while the transfers numbered 362, changes 32, extracts, searches and estrays 1,408, being a total of 4,620 transactions during the year. The above figures show a decrease of 353 horse and 392 cattle brands, transfers by 162, changes 2, while extracts, searches and estrays have increased by 190, or a total decrease of 719 transactions during the year.

Although these figures show a considerable reduction in the number of transactions compared with the previous year, it should be borne in mind that 1910 was a record year as far as this work was concerned, and if we compare the figures for the year just closed with those of 1909 or previous years, a steady increase will be observed.

The number of letters received during the year referring to the Province of Alberta, was 5,169, while the number of documents despatched was 8,697, a total of 13,866, being a decrease of 2,206.

The following is a statement showing the transactions from 1898 up to December, 1911:

| TRANSFERS.   |                                       |  |  |  |  |  |
|--|---------------------------------------|--|--|--|--|--|
| 1899   | 132<br>165<br>222<br>265<br>400       |  |  |  |  |  |
| 1904. 1905 ${N.W. \text{ Territories} \atop \text{Alberta}}$   | 402<br>299<br>120<br>80               |  |  |  |  |  |
| 1907 \Baskatchewan. Alberta.  1908 \Baskatchewan. Alberta  | 389<br>72<br>430<br>59<br>421         |  |  |  |  |  |
| 1909   Saskatchewan   Alberta   Saskatchewan   Sask | 68<br>430<br>65<br>524<br>76          |  |  |  |  |  |
| CHANGES.   |                                       |  |  |  |  |  |
| 1899.<br>1900.<br>1901.<br>1902.<br>1903.<br>1904.<br>1905 {N.W. Territories.<br>Alberta.  | 27<br>20<br>26<br>43<br>43<br>32<br>7 |  |  |  |  |  |
| 1906 { Saskatchewan  | 1<br>38<br>2<br>28                    |  |  |  |  |  |

| The state of the s |  |
|--|--|
| 1908 {Saskatchewan   | 6  |
| 1000 (Saskatchewan   | 4  |
| Alberta  | 33   |
| 1910 { Saskatchewan  | · · 34   |
| 1011 / Saskatchewan  | . 9  |
| 1911 Alberta   | 32   |
| SEARCHES AND EXTRACTS.   |  |
| 1899   |  |
| 1900   | 35   |
| 1901.<br>1902.   | 42   |
| 1903   | 100<br>144   |
| 1904   | 124  |
| 1905 {N.W. Territories   | 81<br>13   |
| 1906 Saskatchewan  | 2  |
| Alberta  | 73   |
| 1907 (Saskatchewan.<br>Alberta.  | 23<br>73   |
| 1908 (Saskatchewan (including strays)  | 15   |
| Alberta (including strays).  | 292  |
| 1909 (Saskatchewan (including strays). Alberta (including strays).   | 349<br>783   |
| total Saskatchewan (including strays)  | 447  |
| Afficial (including strays)  | $\frac{1,218}{257}$                                |
| 1911 (Saskatchewan (including strays)  | 1,377  |
| Number of brands re-allotted in 1898.  | 3,228  |
| CATTLE BRANDS.   |  |
| 1898   | 0.111  |
| 1899.  | 2,111<br>1,466                                     |
| 1900.<br>1901.   | 1,508  |
| 1902   | 1,689<br>1,934                                     |
| 1903   | 2,390  |
| 1904   | 2,034 $1,353$                                      |
| $1905 \left\{ \begin{matrix} \text{N.W. Territories.} \\ \text{Alberta.} \end{matrix} \right.$   | 337  |
| 1906 Saskatchewan  | 70   |
| 1007 / Saskatchewan  | 1,894  |
|  | 1,230  |
| 1908 (Saskatchewan. Alberta.   | $\frac{415}{1,225}$                                |
| 1000 Saskatchewan  | 438  |
| Alberta  | 1,326  |
| 1910 (Saskatchewan.<br>Alberta   | $\frac{468}{1,672}$                                |
| 1911 {Saskatchewan   | 608  |
| (Alberta,,,,,  | 1,280  |
| HORSE BRANDS.  |  |
| 1898   | 941  |
| 1899   | 821  |
| 1900   | 886  |
| 1901   |  |
| 1901<br>1902   | 947<br>1,234                                       |
| 1902   | 947<br>1,234<br>1,390                              |
| 1902   | 947<br>1,234<br>1,390<br>1,346                     |
| 1902   | 947<br>1,234<br>1,390                              |
| 1902<br>1903<br>1904<br>1905   N.W. Territories<br>Alberta<br>1906   Alberta   | 947<br>1,234<br>1,390<br>1,346<br>985<br>248<br>89 |
| 1902<br>1903<br>1904<br>1905   N.W. Territories<br>1905   Alberta<br>1906   Saskatchewan   | 947<br>1,234<br>1,390<br>1,346<br>985<br>248       |

## DEPARTMENT OF AGRICULTURE

| 1909 {Saskatche<br>Alberta<br>1910 {Saskatche<br>Alberta | wanwan       | 435<br>1,103<br>352<br>1,308<br>414<br>1,891<br>583<br>1,538  |
|--|--------------|---|
| Total transactio   | . 189<br>190 | 2,000   |
| « « «  | 190          | 02. 3,559<br>03. 4,367<br>04. 3,949   |
| ee «   | 190<br>· 190 | $_{05} { m N.W.\ Territories.} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$                                       |
| u u  | 190          | 07 { Saskatchewan     1,109       Alberta     2,791       08 { Saskatchewan     930       Alberta     3,070 |
|  | 190<br>191   | $09$ $\begin{cases} Saskatchewan & 1,211 \\ Alberta & 3,880 \end{cases}$                                    |
| u "  |              | 10 Alberta  |

Yours obediently,

James Wilson, Recorder of Brands.

## 7.—REPORT OF THE SUPERINTENDENT OF FAIRS AND INSTITUTES.

Sir,—I beg to present herewith the annual report of the Superintendent of Fairs and Institutes for the year 1911.

#### EDUCATIONAL WORK.

During the year institute meetings were held at 122 places. A great many of these meetings took place during the month of January when the weather was very cold and in some cases the snow was very deep. There is no doubt that this affected the attendance at several of the meetings. Notwithstanding the fact that the weather was severe and stormy, the attendance compares favourably with that of previous years. The meetings held during the month of February were much more successful than those held during any previous year. Fifteen speakers were employed, two attending each meeting, each speaker taking different subjects. Several night meetings were held but it was found that very few of the farmers attended these meetings, the attendance being largely townspeople. There is no doubt that it is wiser to hold the meetings about 2 o'clock in the afternoon.

A special advertising campaign was inaugurated; a three-inch double-column advertisement was carried in the local paper of the district where each meeting was being held. Posters were sent out to the following:

Secretaries of Agricultural Societies, Local Secretaries of the United Farmers of Alberta, Postmasters, Station Agents, Hotel

Proprietors.

To supplement this work a circular letter was sent to a mailing list of 5,000 names calling attention personally to the meetings. In this letter a pamphlet was enclosed outlining the work in connection with the short course schools and institute meetings, giving the place, date, names of speakers and subjects to be discussed. This folder, or pamphlet, is no doubt one of the best methods of advertising such work. The paper used was of good quality and the folder made of such a size and shape that it could be conveniently carried in one's pocket.

It is plainly evident that the institute work is growing from year to year. In the neighbourhood of 6,500 attended the meetings during the past season. The interest manifested at the various meetings as shown by the reports of speakers, goes to prove that the people are anxious for information on agricultural subjects.

#### INSTITUTE MEETINGS.

The following is a list of meetings addressed by C. E. Lewis, B.S.A., Chief Inspector of Weeds, on noxious weeds, and G.H. Hutton, B.S.A., Superintendent of the Dominion Experimental Farm, Lacombe, on soil culture and crops:

| Hardisty | <br>. " 1 | L |
|----------|-----------|---|
| Daysiand | <br>66 E  |   |

The following list of meetings was addressed by A. W. McIntyre, Esq., Newington, Ont., on hog-raising and dairying, and D. W. Warner, Esq., Edmonton, on soil culture and noxious weeds:

| Three HillsJam   | ary 5            |
|--|------------------|
| Sunnyslope   | " 6              |
| Neapolis   | " -7             |
|  | " 9              |
| Knee Hill Valley Milnerton   | " 10             |
|  | " 11             |
| Huxley   | " 11             |
| Trochi   | 12               |
| Curlew   | " 13             |
| Mayton   | " 14             |
| Bowden   | " 21             |
|  | " 23             |
| Eagle Valley School  | " 24             |
| Description of the state of the | " 2 <del>5</del> |
| Berrydale School   |                  |
| Dickson  | 20               |
| Markerville  | " 27             |
| Penhold  | " 28             |

Mr. McIntyre also spoke at the following places on hog-raising and dairying, A. Gilbault, Esq., acting as interpreter:

| MorinvilleJanuary | 7 16 |
|-------------------|------|
| Riviere Qui Barre | 17   |
| Legal""           | 18   |
| St. Albert "      | -19  |

D. W. Warner, Esq., and L. U. Fowler, Esq., Edmonton, addressed the following meetings: Mr. Fowler spoke on poultry raising; Mr. Warner discussed soil culture and crops.

| Burnt Lake | January 30 |
|------------|------------|
| Eckville   | February 1 |
| Rimbey     | . " 3      |
| Bentley    | " 4        |
| Castor     |            |
| Gadsby     | , " 8      |
| Zenith     |            |
| Red Willow | . " 10     |
| Stettler   | " 11       |
| Erskine    | . " 13     |
| Content    |            |
| Alix.      |            |
| Clive      | . " 16     |
| Earlville  | . " 17     |

A. W. Foley, Esq., Poultry Superintendent for the province, and E. J. Cook, Esq., of Lethbridge, addressed the following meetings on practical poultry raising:

| Conjuring Creek |     | <br>. January |
|-----------------|-----|---------------|
| Calmar          |     | <br>"         |
| Beaumont        |     | <br>. "       |
| Ellerslie       |     | <br>"         |
| Namao           | \ \ | "             |
|                 |     |               |
|                 |     |               |
|                 |     |               |
| Holden          |     | - 44          |
|                 |     |               |
| Irma            |     | <br>          |
|                 |     |               |
|                 |     |               |
|                 |     |               |
| nexporo         |     |               |

| Stony PlainFebruar  | y 1 |
|---------------------|-----|
| Mewassin            | 2   |
| Inga "              | . 3 |
| Spruce Grove Centre | 4   |

W. F. Stevens, Esq., Live Stock Commissioner, discussed swine growing and soil culture and D. N. McIntyre, Esq., Meadows, Man., spoke on preservation of humus, and feeding and care of dairy cattle, at the following meetings:

| Coleridge     | January 19 |
|---------------|------------|
| Irvine        |            |
| Josephsburg   |            |
| Taber         |            |
| Cardston      |            |
| Glenwood      |            |
| Mountain View |            |
| Leavitt       |            |
| Kimball       |            |
| Magrath       |            |
| Coaldale      |            |
| Coardare      |            |

Messrs. D. N. McIntyre and E. J. Cook addressed the following meetings on soil cultivation and poultry raising respectively:

| LeducFebr<br>MilletFebr | uary 2       |
|-------------------------|--------------|
| Spring Lake             | " 6          |
| Hastings Cource         | " 7<br>" 8   |
| Flagstaff               | " 9<br>" 10  |
| Merna.<br>Killam        | " 10<br>" 11 |
| Prague                  | " 13<br>" 14 |
| Strome                  | " 15         |
| Bawii                   | " 16<br>" 17 |
|                         | " 18         |

The following meetings were addressed by W. H. Fairfield, Esq., Superintendent of the Dominion Experimental Farm, Lethbridge, on soil culture and alfalfa, and E. H. Malcolm, Esq., Killam, on noxious weeds:

| Carmang y   | ruary 13 |
|-------------|----------|
| Cleverville | " 14     |
| Barons      |          |
| Noble       | " . 16   |
| Monarch     | " 17     |
| Warner      | " 18     |

S. S. Stansell, Esq., Stony Plain, and A. P. Stevenson, Esq., Morden, Man., spoke at the following meetings on birds and their relation to agriculture and forestry:

| Cochrane   | <br>     |
|------------|----------|
| Priddis    | <br>     |
| De Winton  | <br>9    |
| Okotoks    | <br>" 10 |
| High River | <br>" 11 |
| Cavlev     | <br>" 13 |
| Macleod    | " 14     |
|            |          |
| Claresholm | <br>" 16 |
|            |          |

| Nanton              | February 18 | 3 |
|---------------------|-------------|---|
| Crossfield          | <b>"</b> 21 | 1 |
| Carstairs           |             | į |
| Didsbury. Bowden.   |             | 3 |
| Penhold             |             |   |
| Innisfail           |             | 1 |
| Lacombe.<br>Ponoka. |             | ì |
| Wetaskiwin          |             |   |
| Leduc               |             |   |
| Strathcona.         |             |   |

The following meetings were addressed by W. F. Stevens, Esq., on swine growing, and D. McKercher, Esq., Olds, on how to treat ordinary diseases of farm stock:

| Lloydminster | ,<br>, , , , , , , , , , , , , , , , , , , | February 1 |
|--------------|--|------------|
| Kitscoty     |  | . " 1      |
| Islay        |  | . " 1      |
| Chailey      |  | . " 2      |
| Minburn      |  | . " 2      |
| Vermilion    |  | . " 2      |

#### SHORT COURSE WORK.

## Short course schools were held as follows:

| Strathmore | February 6th to February 11th.  |
|------------|---------------------------------|
| Macleod    | February 13th to February 25th. |
| Vermilion  | February 20th to March 4th.     |
| Innisfail  | February 27th to March 11th.    |

The programme of addresses at these schools was of a very similar nature to that given in previous years. It is interesting to note the increase in attendance from year to year. When these schools were first started the attendance ran from 40 to 60. During the past winter the attendance reached a total of 460 at one of the sessions. Each course lasted two weeks; the first week was devoted entirely to live stock, the second to a study of grains, grasses, noxious weeds, poultry, dairying and horticulture.

A large circular tent fitted with circus seats and stoves was used for live stock work. Three car loads of pure bred stock were kindly loaned for instruction work by the following breeders:

| STOCK                  | OWNER           | ADDRESS   |
|------------------------|-----------------|-----------|
| 1 Clydesdale stallion. | H. McIntosh     | Macleod.  |
| 1 Clydesdale stallion. | John Richards   | Red Deer  |
| 2 Clydesdale mares     | Bryce Wright    | De Winton |
| 2 Suffolk stallions    | G. Jaques       | Lamorton  |
| 1 Belgian stallion     | G. T. Kidd      | Strome    |
| 2 Percheron stallions  | G. Lane         | Dalai-la  |
| 2 Percheron marca      | G. Lane         | rekisko.  |
| 2 I eletteron mares    | G. Lane         | Pekisko.  |
| 2 Hereford cows        | G. H. Cresswell | Edmonton. |
| 2 Hereford bulls       | G. H. Cresswell | Edmonton  |
| 1 Shorthorn bull       | Brvce Wright    | De Winton |
| 1 Shorthorn cow        | Bryce Wright    | De Winton |
| 1 Shorthorn cow        | J. H. Melick    | Edmonton  |
| 1 Shorthorn bull       | I H Moliels     | Edmonton, |

| 2 Angus cows        | L. Hutchinson            | Duhamel.    |
|---------------------|--------------------------|-------------|
| 2 Ayreshire cows    | A. H. Trimble            | Red Deer.   |
|                     | A. H. Trimble            |             |
|                     | Prof. Elliott, C.P.R. De |             |
|                     | stration Farm            | Strathmore. |
| 3 Oxford sheep      | Bryce Wright             | De Winton,  |
| 3 Shropshire sheep. | Jno. A. Turner           | Calgary.    |

This stock was shipped from place to place and used in the

class-room for demonstration purposes.

A short practical course was given in judging and grading the different grains grown in the province. The more important varieties in each class were studied, their qualifications discussed, and especial emphasis placed upon their adaptibility for growth within the province. Samples of noxious weeds and seeds were exhibited, their habits, and the methods of eradication thoroughly discussed.

Lectures in dairying, the breeding, hatching, rearing, housing

of poultry and egg production formed a part of this course.

A new feature in connection with the short course schools which created a great deal of interest, was the judging competition. was held at the close of each school, the students competing in the judging of live stock and grain. The four who received the highest total number of marks in this competition had their expenses paid to a central point where they competed as teams, in a grand championship competition. The final contest was held at Innisfail on March 10. The following is the order in which the teams stood:

1, Strathmore; 2, Macleod; 3, Innisfail, 4, Vermilion.

The department offered four silver cups to be presented to the individuals composing the winning team; four illustrated books on live stock were presented to the individuals who stood highest

in the competition outside the members of the winning team.

A great deal of credit must be given to the agricultural societies and citizens in the different towns where these schools were held. An officer of the department interviewed the members of the boards of trade and agricultural societies in the different towns outlining the work in conncction with the short courses, and in each case was assured of the hearty co-operation of the people of the district. The thanks of the department is due to those who assisted in making the various short courses a success, and is also due to the officials of the C.P.R., and particularly to Professor Elliott for his untiring efforts in connection with the short course at Strathmore.

The following is a list of speakers who composed the staff of the

short course schools:

George Harcourt, B.S.A., Deputy Minister of Agriculture, Edmonton. W. F. Stevens, Live Stock Commissioner, Edmonton. C. E. Lewis, B.A., B.S.A., Superintendent Fairs and Institutes, Edmonton. A. W. Foley, Poultry Superintendent, Edmonton. Bryce Wright, De Winton. A. W. McIntyre, Newington, Ont. C. Marker, Dairy Commissioner, Colombi

G. H. Hutton, B.S.A., Superintendent Experimental Farm, Lacombe.
W. D. Breckon, B.S.A., Superintendent Demonstration Farm, Stoney Plain.
E. H. Malcolm, Killam.

G. W. Scott, Creamery Inspector, Innisfail. J. H. Pearson, Creamery Inspector, Red Deer.

A. Atkinson, B.S.A., Professor of Agronomy, Agricultural College, Pozeman, Montana.

W. J. Elliott, B.S.A., Superintendent C.P.R. Demonstration Farm, Strath-

J. T. Worthington, Strathmore.

#### FAIRS.

Increasing interest is being manifested throughout Alberta in agricultural fairs. A large number of the societies are improving their grounds and buildings; the number and quality of the exhibits also show the progress that is being made by many of the fairs.

Every society should endeavour to make their fairs educational, and keep this feature of the work to the front. No pains should be spared to provide good accomodations for spectators to watch the judging. If a good grand stand were placed at the side of the judging ring a much larger number would avail themselves of the opportunity of watching the work of the judges. When the decisions are given on a class they should be arranged in order of merit so as to give the spectators a chance to see the placing to advantage. The department has supplied judges for the placing of awards on all classes of horses, cattle, sheep and swine. The entries in live stock at some of the fairs have become so large that it will be necessary to supply two judges for cattle, and two judges for horses.

The following is a list of the fairs held during 1911, together

with the dates, names and addresses of the judges:

| FAIR   | DATE  | JUDGE FOR HORSES   | JUDGE FOR CATTLE, SHEEP AND SWINE.   |
|--|---|--|--|
| Crossfield. Calgary. Okotoks. Innisfail Macleod. Granum Claresholm. Stony Plain Edmonton   | June 20 to July 7<br>July 11-12.<br>July 13-14.<br>Aug. 2-3-4.<br>Aug. 7-8.<br>Aug. 9-10.<br>Aug. 11-12.                                    | T. Rawlinson, Wimborne  Dr. Campbell, Priddis T. Rawlinson, Wimborne D. McKercher, Olds  "  Neil Smith, Brampton, Ont. (Clydesdales).  | " " " " " John Gardhouse, Highfield,   |
| Rexboro<br>Wabamun<br>Lethbridge   | Aug. 22   | C. J. Arnott, Ames, Iowa<br>(Percherons & Belgians).<br>W. J. Stark, Toronto, Ont.<br>(Light horses).<br>Dr. D. McKercher, Olds<br>Neil Smith, Brampton, Ont.<br>(Clydesdales).<br>Wayne Dinsmore, Chicago | W. H. Hammer, Olds.  A. W. McIntyre, Newington, Ont. (Beef Cattle, Sheep and Swine). C. J. Arnott, Ames, Iowa, |
| Medicine Hat   | Aug. 29 to Sept 1.  | W. R. Lowes, Edmonton,   | (Dairy Cattle).<br>A. W. McIntyre.   |
| Entwistle St. Albert Ft. Saskatchewan Vermilion Kitscoty Lloydminster Innisfree Vegreville Irma Viking Holden Tofield Strome Pincher Creek Nanton Stavely Raymond Magrath Cardston | Sept. 13. Sept. 14. Sept. 19. Sept. 27. Sept. 29. Oct. 3-4. Oct. 5-6. Sept. 22. Sept. 26. Sept. 28. Sept. 28. Sept. 28. Sept. 28. Sept. 28. | Neil Smith  " " " "  Dr. McKercher  " " " " " " " "  | W. R. Winslow, Lacombe.  |
| Rawdonville Langdon Warner. Leduc. Cochrane  | Oct. 3  | 46<br>44   | Jas. Hunter, Innisfree.  |
| bedgewick  | Dept. 10  | Dr. A. D. Campben, 1 Hddis   | 1. 11. Tinney, Medicine Hai  |

| FAIR              | DATE        | JUDGE FOR HORSES            | JUDGE FOR CATTLE, SHEEP<br>AND SWINE. |
|-------------------|-------------|-----------------------------|---------------------------------------|
| Three Hills       | Sept. 19    | Dr. A. B. Campbell, Priddis | T. H. Tinney, Medicine Hat            |
| Milnerton         | Sept. 20    | 45                          | " "                                   |
| Olds              | Oct. 10-11  | 44                          | W. R. Winslow.                        |
| Wetaskiwin        |             | «                           | 44                                    |
| Alix              |             | 44                          | T. H. Tinney.                         |
| Lacombe           | Sept. 28-29 | 46                          | 44                                    |
| Ponoka            |             | 16                          | 44                                    |
| Camrose           |             | . "                         | . "                                   |
|                   |             | Neil Smith                  | W. R. Winslow.                        |
| Didsbury          |             |                             | "                                     |
| Priddis           |             | 44                          | 44                                    |
| Gleichen          |             | "                           | 44                                    |
| Castor            | Sept. 25-26 | W. R. Lowes                 | Jas. Hunter.                          |
| Stettler          | Sept. 28-29 | "                           | "                                     |
| Carmangay         |             | 44                          | tt                                    |
| Hardisty          |             | "                           | . "                                   |
| Provost           |             | 16                          | 45                                    |
| Mid-Pembina       |             | 44                          | и                                     |
| Paddle River      | Sept. 20    | μ                           | . "                                   |
| Edgerton          |             | **                          |                                       |
| High River        |             | и                           | и                                     |
| Lesser Slave Lake |             | 44                          | "                                     |
|                   |             |                             |                                       |

During the past year eleven new agricultural societies have been organized as follows:

| Mid-Pembina Agricultural SocietyD    | unstable.   |
|--------------------------------------|-------------|
| Acme Agricultural SocietyA           | cme.        |
| Wainwright Agricultural Society      | Vainwright. |
| Munson Agricultural Society          | lunson.     |
| Hardisty Agricultural Society        |             |
| Warner Agricultural Society W        |             |
| North Alberta Agricultural Society K | Cinnoull.   |
| Legal Agricultural SocietyL          |             |
| Paddle River Agricultural Society    |             |
| Elk Point Agricultural Society E     |             |
| Edgerton Agricultural Society E      |             |

The Ordinance at present makes it imperative for each society to hold two institute meetings and I do not think it would be asking too much to require each society to hold at least one of these meetings without government aid, at some outlying point. By so doing they will be able to create an interest in the work an agricultural society should be endeavouring to accomplish throughout the surrounding territory. Good results should be obtained such as increasing the number and quality of the exhibits at the fair. The following is a complete list of the agricultural societies and exhibition associations in Alberta:

|                       | 1                 | 1           |
|-----------------------|-------------------|-------------|
| SOCIETY               | SECRETARY         | ADDRESS     |
| Airdrie               | J. M. Windsor     | Airdrie.    |
| Alix                  | G. H. Darlow      | Alix.       |
| Acme                  | W. Bannerman      | Acme.       |
| Bowden                | H. E. Shenfield   | Bowden.     |
| Cardston              | Jos. Card         | Cardston.   |
| Claresholm District   | J. R. Watt        | Claresholm. |
| Camrose               | Jas. Pike         | Camrose.    |
| Crossfield            | IG. W. Bovce      | Crossfield. |
| Cochrane District     | J. E. Laird       | Cochrane.   |
| Castor                | Geo. Auxier       | Castor.     |
| Carmangay             | A. F. Wilson      | Carmangay.  |
| Deseret (Magrath)     | Benj. Matkin      | Magrath.    |
| Didsbury              | H. B. Atkins      | Didsburv.   |
| Daysland              | A. A. P. McDowell | Daysland.   |
| Entwistle and Pembina | S. W. Morris      | Entwistle.  |
| Elk Point             | E. L. Arnett      | Elk Point.  |

| SOCIETY                                 | SECRETARY            | ADDRESS           |
|---|----------------------|-------------------|
| Edgerton                                | Wm. Grieve           | Edgerton.         |
| Fort Saskatchewan                       | IG. T. Montgomery    | Fort Saskatchewan |
| Gleichen:                               | W. J. Burr           | Gleichen.         |
| Granum                                  | James Blair          | Granum.           |
| Grand Prairie                           | David H. Axon        | Beaver Lodge      |
| High River.                             | Harry Nelson         | High River        |
| Holden                                  | IWm. E. Haves        | Holden            |
| Innisfail                               | A. Aspinall          | Innisfail.        |
| Irvine                                  | IL R Harris          | Irvine            |
| Innisfree                               | J. H. Montgomery     | Innisfree.        |
| Irma                                    | Chas. Swailes        | Irma              |
| Kitscoty                                | E. C. McPhee         | Kitscoty.         |
| Lacombe                                 | Jas Gourlay          | Lacombo           |
| Lethbridge and District                 | J. W. McNicol        | Lethbridge        |
| Leduc                                   | C. W. Carroll        | Leduc.            |
| Legal                                   | J. B. Cote           | Legal             |
| Langdon and Bow River.                  | H. H. Huxley         | Lloydminster.     |
| Langdon and Bow River                   | Omar Botsford        | Langdon.          |
| Lesser Slave Lake                       | Geo. E. Martin       | High Prairie.     |
| Macleod                                 |                      | Macleod.          |
| Medicine Hat                            | H. H. Hassard        | Medicine Hat.     |
| Mannville                               | R. B. Hanning        | Mannville.        |
| Milnerton                               | Ernest W. Meers      | Wimbourne.        |
| Mid-Pembina                             | H. S. McCowan        |                   |
| Nanton                                  | Wm. Robertson        | Nanton.           |
| Munson.                                 | W. S. Jacobs         | Munson.           |
| Olds                                    | R. Bowman Campbell   | Olds.             |
| Okotoks.                                | E. A. Hayes          | Okotoks,          |
| Pincher Creek                           | J. W. Harwood        | Pincher Creek.    |
| Priddis and Millarville.                |                      | Ponoka.           |
| Provost and District                    | Jos C Mokey          | Millarville.      |
| Paddle River.                           | D R O'Rmon           |                   |
| Raymond                                 | F R Holt             | Paddle River.     |
| Red Deer                                | A D McKongio         | Pod Door          |
| Rexboro and District.                   | Geo Merryweather     | Reyboro           |
| Swalwell                                | A. B. Claypool       | Swalwell          |
| St. Alpert                              | Omar St. Germain     | Morinville        |
| Stettler                                | David Mitchell       | Stettler          |
| Sedgewick                               | M Harner             | Sodromialz        |
| Stavely<br>Strome-Killam                | R. A. Hopkins.       | Stavely.          |
| Strome-Killam                           | W. E. G. Hunter      | Strome.           |
| Stony Plain                             | T P Lindley 1        | Stony Plain       |
| Strathmore                              | Hrank T Makiboog I   | Strathman         |
| Taber. Three Hills                      | Theodore A. Sundall. | Taber.            |
| Three Hills                             | C. P. McDonough      | Three Hills.      |
| Tolleia                                 | R. N. Whillans 1     | Tofield.          |
| TrochuVermilion Valley and Beaver Lake. | L. E. Eckenfelder    | Trochu.           |
| Vermilion Valley and Beaver Lake.       | Frank Wilson         | Vegreville.       |
| Vermilion                               | H. A. Taylor         | Vermilion         |
| Viking and Birch Lake                   | C S Councilman       | Viking.           |
| Wetaskiwin<br>Wabamun                   | Chas. D. Enman       | Wetaskiwin.       |
| wabamun                                 | G. C. Laight         | Wabamun.          |
| warner                                  | J. D. Dall           | Warner            |
| Wainwright                              | P. E. Ross           | Wainwright.       |

#### EXHIBITION ASSOCIATIONS.

Inter-Western Pacific Exhibition Co. (Alberta Provincial). Edmonton Industrial Exhibition Association.

#### POULTRY SHOWS.

Poultry shows have been held by the following societies and associations:

Taber Agricultural Society, Pincher Creek Agricultural Society, Calgary Poultry and Pet Stock Association, Medicine Hat Poultry and Pet Stock Association, Edmonton Poultry and Pet Stock Association, Magrath Agricultural Society, Lethbridge Poultry and Pet Stock Association.

#### FIELD GRAIN COMPETITION.

These competitions have been instrumental in making the farmers realize the importance of sowing good clean seed. Since they have been introduced, great improvement has been made by the competitors in regard to purity of variety, and freedom from other kinds of grain and weeds.

The following is a list of societies that held field grain com-

petitions and the date thereof:

| BowdenAugust 22.                 |
|----------------------------------|
| CardstonAugust 19.               |
| CarmangayAugust 15-16-17         |
| ClaresholmSeptember 1.           |
| Eastern AlbertaAugust 11-12.     |
| InnisfailAugust 14.              |
| KitscotyAugust 15.               |
| LacombeAugust 24.                |
| LeducAugust 16.                  |
| LethbridgeJuly 26.               |
| Macleod. July 26.                |
| Medicine HatJuly 27.             |
| SedgewickAugust 12.              |
| Stony PlainAugust 18.            |
| TrochuAugust 12.                 |
| Vermilion Valley and Beaver Lake |
| Viking and Birch LakeAugust 19.  |
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|----|----------------------------------|-------------|------------------------|------------|-------------|-----------|--------------|------------------|-------------------|------------------|------------------|-------------|--|------------|-------------|----------|----------|----------|------------|--------------|---------------------------|---------------|-------------|---|--------------|--------------|----------|--------------|--------------|--------------------|--------------------|
|    | Liabilities                      | 1           | \$2,947.07<br>4.500.00 | 4,500.00   | 2 487 09    | 2,507.85  | 10.000,0     | 4 060 00         | 20.786.07         | 590 48           |                  |             | 2,671 97   |            |             |          |          | 10:10    |            | 1.424 01     | 265 00                    | 389.80        | 325.00      | 1,570.39                                | 1,560.00     | 1,041.79     | 725.00   | 200.00       | 453.45       | \$2,443.00         | 634.90<br>1.133.00 |
|    | Assets                           |             | #4,108.94<br>5,069,41  | 9,000.41   | 80 988 9    | 12,303,10 | 01.000.01    | 2.066.33         | 35,539,85         | 4,400.00         | 6,452.75         | 00.006      | 2.417.07   | 1,700 00   | 4.586.95    | 2,818.15 | 1,432.01 | 129 35   |            | 1.113.10     | 61.54                     | 4.20          | 22.29       | 5,500.00                                | 1,502.91     |              |          |              |              |                    | 42.34              |
|    | Balance<br>on hand               | 6           | 68.41                  | × 15.      | 07.0        | 22, 00    |              | 58.67            |                   |                  |                  |             |  | 18.53      | 63.95       |          |          | 129.35   |            |              | 61.54                     | 4.20          | 22.29       |   | 2.91         | :            | 126.10   | 117.28       | :            | \$27.76            | 12.34              |
|    | Total<br>Expenditure             | 64 104 00   | 4 400 87               |            | 7,610.39    | 5.792.15  | 21,493.02    | 15,047.93        | 45,619.30         | 1,899.44         | 1,610.55         | 3,507.45    | 5,593.78   | 1,606.95   | 2,816.14    | 3,973.98 | 3,786.39 | 1,032.80 | 1,627.64   | 3,115.31     | 799.80                    | 1,392.50      | 1,040.70    | 2,614.90                                | 1,616.70     | 2,633.55     | 1,877.45 | 1,451.55     | 1,291.05     | \$5,396.90         | 1,635.16           |
|    | Total<br>Receipts                | \$4.184.00  | 4.469.28               | 1,349.90   | 7,610.39    | 5,814.15  | 21,493.02    | 15,106.60        | 45,619.30         | 1,899.44         | 1,610.55         | 3,507.45    | 5,593.78   | 1,625.48   | 2,880.09    | 3,973.98 | 3,786.39 | 1,162.15 | 1,627.64   | 3,115.31     | 861.34                    | 1,396.70      | 1,062.29    | 2,614.90                                | 1,619.61     | 2,633.55     | 2,003.55 | 1,568.83     | 1,291.05     | #5,424.66          | 5,376.88           |
|    | Government<br>Grant paid<br>1911 | \$1 199 33  | 1.347.00               | 660.87     | 2,005.33    | 1,017.17  | 2,287.66     | 1,052.99         | 1,338.33          | 597.17           | 544.83           | 1,202.10    | 1,645.80   | 758.66     | 1,013.00    | 998.66   | 963.83   | 40.00    | 978.10     | 642.33       | 319.67                    | 472.50        | 379.83      | 392.66                                  | 494.96       | 99.000       | 602.67   | 059.33       | 60.216       | \$914.55<br>644.75 | 946.66             |
|    | Mis-<br>cellaneous<br>Receipts   | 83 061 76   | 3,122.28               | 689.03     | 5,605.06    | 4,796.98  | 19,205.36    | 14,053.61        | 44,280            | 1,302            | 1,065            | 2,305       | 3,947  | 998        | 1,867       | 2,975.32 | 2,822.56 | 1,122.15 | 649.54     | 2,472.98     | 541.67                    | 924.20        | 683.16      | 4,222.24                                | 00.471,1     | 68.760,7     | 1,400.88 | 909.90       | 97.670       | 1 000 7E           | 4,430.22           |
|    | Balance<br>on hand<br>from 1910  |             | 36.83                  |            |             |           |              | 211.30           |                   | 50.29            | 4.09             | 13.15       | 92.56  | 46.57      | 188.09      |          |          | 4/8.82   | 9.44       | . 1          | 9.11                      |               | 95.6        | : |              | 91 90        | 02.120   | 30.00        | 4110 50      | #11# . eo          | 1.90               |
|    | SOCIETY                          | 1 Cardston. | 2 Magrath              | 3 Didsbury | 4 Innistail | 5 Lacombe | o Letabridge | o Medicine Train | ordering the frat | O Dinohom Canal- | 10 Linguel Creek | 9 Downson d | A Object of the state of the st | # Okoloks. | a Waterline | 7 Lodge  | O Nonton | O IV     | y eriminon | Olligh Myer. | O Wilsia and Millal VIIIC | 23 St. Albert | SS Stettler | 26 Davsland                             | 7/Claresholm | 28 Wilnerton | 30 Taher | 31 Innistree | 32 Sedoewick | 33 Alix.           | 34 Lloydminster.   |
|    |                                  |             |                        |            |             |           |              |                  |                   |                  |                  |             |  |            |             |          |          |          | -1 C       | 40,          | 4 6,                      | 40            | 1 C         | C                                       | S            | CV           | 1 0.     | 60           | 0.0          | ಎ                  | ಲ                  |

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| 2,758,80<br>1,136,63<br>1,136,63<br>1,136,63<br>1,136,63<br>1,435,62<br>1,555,90<br>1,555,90<br>1,555,90<br>1,555,90<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,349,67<br>1,3   | 89,647.53<br>142,806.46                                   |
| 794.96<br>673.46<br>673.46<br>558.83.83<br>841.33<br>843.13<br>99.00<br>810.33<br>843.16<br>678.50<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60<br>87.60 | **************************************                    |
| 2,169.38<br>2,169.38<br>5,88.40<br>5,99.00<br>5,11.95<br>1,14.2.57<br>1,573.95<br>1,573.95<br>1,573.95<br>1,837.49<br>1,887.49<br>1,887.49<br>1,887.45<br>1,887.49<br>1,887.49<br>1,887.49<br>1,887.49<br>1,887.49<br>1,887.49<br>1,887.49<br>1,888.00<br>2,458.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70<br>1,479.70  | FINANCIAL STATEMENT—EXHIBITION ASSOCIATIONS.    81,647.53 |
| 19.57<br>275.34<br>6.65<br>6.65<br>8.60<br>8.60<br>8.60<br>8.60<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50<br>75.50  | 12,169.42   |
| 35 Cantrose 36 Gleichen 38 Frue 39 Crossfield 41 Bowden 41 Bowden 42 Wabanun 43 Rexboro 45 Cochranc 46 Holden 49 Strome-Killam 50 Trochu 51 Fort Saskatchewan 52 Granum 52 Granum 53 Langdon and Bow River 54 Grand Prairie 55 Castor 55 Castor 56 Kitscoty 57 Swalvell 68 High Prairie 59 Swalvell 60 Entwistle 61 Carmangay 62 Provost. 64 Mid-Pembina 65 Hardisty 66 Poly Boint 71 North Alberta 72 Edgerton 73 Munson.  | 610—100. Edmonton   |

AGRICULTURAL SOCIETIES STATEMENT.

| Good Farm<br>Competition                               | <br>  |
|--|---|
| Amount paid<br>in Prizes for<br>Stallion Show          | \$512.00<br>170.00<br>136.00<br>68.00<br>68.00  |
| Amount paid<br>in prizes<br>Field Grain<br>Competition | \$135.00<br>150.00<br>96.00<br>265.00<br>100.00<br>120.00<br>80.00<br>80.00   |
| Amount paid<br>in prizes<br>for Sports                 | \$52.20<br>122.00<br>2,041.50<br>1,822.75<br>3,152.75<br>3,152.75<br>50.60<br>223.50<br>347.50<br>167.50<br>1167.50<br>126.00<br>243.00<br>529.29<br>3.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00<br>520.00 |
| No. of Entries   | 1,023<br>1,216<br>639<br>1,111<br>639<br>2,333<br>2,233<br>2,233<br>1,390<br>1,255<br>1,073<br>489<br>470<br>889<br>856<br>856<br>859<br>468<br>1,119<br>425<br>501<br>241<br>241<br>304<br>575<br>575<br>575<br>575<br>575<br>575<br>575<br>575<br>575<br>57   |
| DATE OF EXHIBITION                                     | September 26-27 September 22-23 October 4. July 13-14 September 28-29 August 22-25 August 23-4 August 23-4 August 23-4 August 23-4 August 23-4 August 23-1 October 10-11 September 12 October 3-4 September 19-20 July 11-12 October 3-4 September 16-27 September 16-27 September 19 October 12-13 October 5. September 19 September 19 October 11-13 September 19 October 11-13 September 19 October 11-13 September 19 September 28-29 September 28-29 September 28-29  |
| SOCIETY  | Cardston   Cardston   S   Magrath   S   Didsbury   Cardsbury   C  |

| 21/Inniefrag         | October 3-4     | 484 | 24.00  |   |        |  |
|----------------------|-----------------|-----|--------|---|--------|--|
|                      | September 15.   | 627 | 80.00  | 150.00                                  |        |  |
|                      | September 27.   |     | :      |   |        |  |
|                      | September 29    |     |        | , 100.00                                |        |  |
|                      | October 5-6     |     | 163.00 |   |        |  |
|                      | October 5-6     |     | 924.05 | :                                       |        |  |
|                      | September 19    |     |        |   |        |  |
|                      | September 22    |     | :      |   |        |  |
|                      | June 22         |     | :      |   |        |  |
|                      | October 3       |     | :      | 115.00                                  |        |  |
|                      | August 22       |     | 176.00 | : |        |  |
|                      | August 19       |     | 33.75  | :                                       |        |  |
| 45 Holden            | September 28    | :   | :      | : |        |  |
|                      | September 13.   | 755 | 163.50 | :                                       | 108.00 |  |
|                      | October 6       | 339 | :      |   | :      |  |
|                      | September 29    | 578 | 108.00 | :                                       |        |  |
|                      | September 8     | 575 | 25.00  | :                                       | :      |  |
|                      | September 1     | 400 | 80.00  | 20.00                                   |        |  |
| 51 Fort Saskatchewan | September 14    | 413 | 200.00 |   |        |  |
|                      | August 7-8      | 658 |        |   |        |  |
|                      | October 4-5     | 360 | 133.40 |   |        |  |
|                      | September 28-29 | 223 | 175.00 | :                                       | :      |  |
| 55 Castor.           | September 25-26 | 492 | 585.00 |   |        |  |
| 56 Kitscotv.         | September 27.   | 412 |        | 100.00                                  |        |  |
| 57 Stony Plain.      | August 11-12.   | 419 | 97.50  | 140.00                                  | :      |  |
| 58 High Prairie.     |                 | 73  | :      |   |        |  |
| 59 Swalwell          | October 3       | 335 | :      |   |        |  |
| 60 Entwistle         | September 12    | 472 | 50.80  | :                                       |        |  |
| 61 Carmangay.        | September 14-15 | 554 | 125.75 | 150.00                                  |        |  |
| 62 Provost           | October 5       | 447 | 312.00 | 100.001                                 | :      |  |

AGRICULTURAL SOCIETIES STATEMENT.—Continued.

| SOCIETY            | DATE OF EXHIBITION | No. of Entries           | Amount paid<br>in Prizes<br>for Sports | Amount paid<br>in Prizes<br>Field Grain<br>Competition | Amount paid<br>in Prizes for<br>Stallion Show | Good Farm<br>Competition |
|--------------------|--------------------|--------------------------|--|--|---|--------------------------|
| 64 Mid-Pembina     | September 22.      | 159                      | 35.00                                  |  |   |                          |
|                    | September 27.      | 122                      | :                                      |  |   |                          |
|                    | Sept. 20           | 230                      | 38.50                                  |  |   |                          |
| 68 Warner          | September 18       | 247                      |  |  |   |                          |
| 59 Elk Font.       |                    |                          | :                                      | :  |   |                          |
|                    | Oatolog d          | 101                      |  |  |   |                          |
|                    |                    | 170                      | 18.00                                  |  |   | · · · · · · · ·          |
|                    |                    | <u>.</u>                 |  |  |   |                          |
|                    | EXHIBITIO          | EXHIBITION ASSOCIATIONS. |  |  |   |                          |
| 610-100. Edmonton. | August 15-19       | 3,545                    | 13,202.95                              |  | .655.00                                       |                          |
|                    | June 20 to July 7  |                          | 7,742.50                               | •  | :   |                          |



ALBERTA GROWS IDEAL BACON HOGS.



#### SEED FAIRS.

These fairs are stimulating a greater interest in the production and use of pure seed, and are doing much to increase the yield and quality of the grain crop in the province. The names of the winners in the various classes are published thus informing the farmers where good seed can be obtained.

The following societies held seed grain fairs:

| Alix               | November 22   |
|--------------------|---------------|
| Cardston.          | November 22.  |
| Bowden.            | November 22.  |
| Camrogo            | . February 1. |
| Camrose.           | January 28.   |
| Daysland           | January 24.   |
| Magrath            | November 23.  |
| Didsbury           | January 20    |
| Gleichen           | Dogombor 2    |
| Innistail          | February 2    |
| Innisfree          | November 25   |
| Irma               | November 20.  |
| Lacombe            | Talaman 7     |
| Lloydminster.      | rebruary 7.   |
| Maclood            | January 19.   |
| Macleod            | November 26.  |
| Medicine Hat.      | December 1.   |
| Milnerton          | January 31.   |
| Olds               | January 21    |
| Finener Creek      | November 28   |
| Provost            | January 27    |
| Raymond            | November 24   |
| Sedgewick.         | Toniower 26   |
| Stavely            | January 20.   |
| Stony Plain        | January 20.   |
| Strome Killem      | December 5.   |
| Strome-Killam.     | January 25.   |
| Taber              | November 29.  |
| Three Hills        | December 7.   |
| Tofield.           | December 2.   |
| vegrevine          | November 26   |
| Vermilion          | November 24   |
| Viking             | November 20   |
| Okotoks            | Fobruary 11   |
| Strathmore         | December 11.  |
| " at a utilition C | December 3.   |

#### STALLION SHOWS.

Spring stallion shows were held at the following places:

| Calgary       | April 18 to 21   |
|---------------|------------------|
| Edmonton.     | April 26 and 27. |
| Medicine Hat  | April 6 and 7.   |
| Cochrane      | April 15.        |
| Vegreville    | April 19.        |
| Pincher Creek | April 22, 24-25. |
| Camrose       | April 21.        |
| Macleod       | April 25-26-27.  |
| High River    | April 14.        |
| Viking        | April 15.        |
| Okotoks       | April 15.        |

## PROVINCIAL SEED FAIR

During the year twenty-seven seed fairs were held at various points in the province. The grain exhibited at each of these fairs was as a rule of good quality showing a decided improvement over the previous year. An institute meeting was held at the close of each fair when the judges discussed the various samples exhibited, giving the reasons for the placings and also dealt with soil cultivation and the eradication of noxious weeds. These fairs were arranged in series and all completed before the provincial fair was held, thus giving a chance to advertise the provincial one at each of the local fairs and bringing forward the prize winning samples for the final contest.

The provincial seed fair was held in Lacombe in the old Public School building on February 8, 9 and 10. The seats were removed from two rooms and railings put up which displayed the samples of grain in a very attractive manner. The number of entries was not quite so large as the previous year but the quality of the grain was well up to the standard. The following is the prize list:

| 1.  | CLASS. Winter wheat, any hard variety   | \$20 | 2nd<br>\$15<br>12 | 3rd<br>\$12<br>8 | 4th<br>\$8<br>5 | 5th<br>\$5 |
|-----|---|------|-------------------|------------------|-----------------|------------|
| - 2 | Winter wheat, any soft variety. Spring wheat, Red Fife.   | 18   | 14                | 10               | 6               | 4          |
| 4   | Spring wheat, any other good milling variety Oats, Banner, Ligowo, Swedish Milling, Dauberney, Orloff, and other named varieties of the long slim | 18   | . 14              | 10               | 6               | 4          |
| 6.  | type of grain   | 20   | 15                | 12               | 8               | 5          |
| 7.  | length and plumpness  | 20   | 15                | 12               | 8               | - 5        |
|     | King, Storm King, and other named varieties of the  | 18   | 14                | 10               | 6               | 4          |
| 0   | short plump type of grain   | 15   | 10                | 5                |                 |            |
| 0,  | Barley, two-rowed.  |      | 10                | 5                |                 |            |
| 10  | Field Peas.   | 12   | 8                 | 5                |                 |            |
| 11  | Flax seed   | 12   | 8                 | 5                |                 |            |
|     | Timothy seed.   | 12   | 8                 | 5                |                 |            |
| 13  | Brome grass seed  | 12   | 8                 | 5                |                 |            |
| 14  | Rye grass seed  | 12   | 8                 | 5                |                 |            |
| 15. | Red clover seed   | 12   |                   | 5                |                 |            |
|     | Alsike clover seed  | 12   | 8                 | 5                |                 |            |
| 17. | Alfalfa seed  | 12   | 8                 | 5                |                 |            |
| 18. | Judging wheat   | 10   | . 8               | 5                | 3               |            |
| 19. | Judging oats  | 10   |                   | 5                | 3               |            |
| 20. | Identification of weed seeds  | . 8  | . 5               | 3                |                 |            |

In addition to this there were six special prizes consisting of silver trophies valued at \$100.00 each, all of which remain in competition until won by one exhibitor, three times. The following is a list of the silver trophies:

Class 21.—Best five bushels of spring wheat, silver trophy, valued at \$100.00,

donated by the publishers of the Farm Crops Magazine, Winnipeg.
Class 22.—Best five bushels of Alberta Red wheat, silver trophy, valued at
\$100.00, donated by the Alberta Pacific Elevator Company of Calgary.
Class 23.—Best five bushels of milling oats, silver trophy, valued at \$100.00, donated by the Calgary and Strathcona branches of the Brackman-Ker Milling Company.

Class 24.—Best five bushels of six-rowed barley, silver trophy, valued at \$100.00,

donated by the Calgary Brewing and Malting Company of Calgary.

Class 25.—Best two bushels of two-rowed barley, sterling silver trophy, valued at \$125.00, donated by the Canadian Pacific Railway Company. In addition to

the trophy, the company offers a cash prize of \$15.00 to the winner and \$10.00 as a second prize. A brewing test will be necessary in making awards in this class.

a second prize. A brewing test will be necessary in making awards in this class. The company reserves the right to purchase winning exhibits at market prices. Class 26.—Best five bushels of Garton's regenerated abundance oats, solid sterling silver trophy, valued at \$100.00, donated by the Garton Pedigree Seed Company of Winnipeg. The oats to be grown from seed obtained from this company the spring preceding the Alberta Provincial Seed Fair, and the trophy to become the property of the person first winning it three times.

#### PRIZE WINNERS.

#### Class 1.

|                                      | Class 1.  |        |                |
|--------------------------------------|---|--------|----------------|
| 1st<br>2nd<br>3rd.<br>4th.<br>5th.   | W. J. Glass Macleo Alex Woolley Norton A. R. Bennett Magrat C. A. Hodgins Wellsd James McNicol Blackfor |        | $00 \\ 00$     |
|                                      | . Class 2.  |        |                |
| 1st.<br>2nd.<br>3rd.                 | C. C. Williams Blackfa J. C. Vaughan Lacom J. McMinn Lacom  | be 12. | 00             |
| 1st.<br>2nd.<br>3rd.<br>4th.<br>5th. | A. J. W. Scott Class 3.  M. Sanford Manvill Shield Bros Macleo W. J. Glass Sedgew W. I. Sharp Sedgew    | le     | 00<br>00<br>00 |
|                                      | Class 4.  |        |                |
| 1st.<br>2nd.<br>3rd.<br>4th.<br>5th. | C. T. Ashmore Knee E J. M. Loree Innisfre G. J. Estell Alix J. A. White Macleo C. A. Hodgins Wellsda    | ee     | 00<br>00<br>00 |
|                                      | Class 5.  |        |                |
| 1st.<br>2nd.<br>3rd.<br>4th.<br>5th. | E. E. Swift Magin. Jos. Nolte. Stettler J. H. Sorum Alix. E. W. Simpson Lacomb F. H. Herbert Strathe    |        | 00<br>00<br>00 |
|                                      | Class 6.  |        |                |
| 1st.<br>2nd.<br>3rd.<br>4th.<br>5th. | G. H. Barrett Lloydm J. M. Lorree Innisfre Wm. Wilson Bowder E. E. Swift Magin A. F. McGill Clive       | e      | 00<br>00<br>00 |
|                                      | Class 7.  |        |                |
| 1st.<br>2nd<br>3rd.                  | Wm. Wilson. Bowden E. W. Simpson. Lacomb J. B. Ririe. Magrath   | e 14.0 | 00             |
|                                      | Class 8.  |        |                |
| 1st.<br>2nd.<br>3rd.                 | Wm. Wilson. Bowden J. M. Loree Innisfre A. C. Bruns Lacomb  | e 10.0 | 00             |

#### Class 9.

| 1st.<br>2nd.<br>3rd. | F H Herhert      | MagrathStratheonaBowden. | 10.00         |
|----------------------|------------------|--------------------------|---------------|
|                      |                  | Class 10.                |               |
| 1st.<br>2nd.         | Alex. Woolley    | NortonLacombe            | 12.00<br>8.00 |
| 1st.<br>2nd.         | S. E. Howard     | Class 12                 | 12.00<br>8.00 |
|                      |                  | Class 13.                |               |
| 1st.                 | P. A. Switzer    | Lacombe                  | 12.00         |
|                      |                  | Class 14.                |               |
| 1st.                 | P. A. Switzer    | Lacombe                  | 12.00         |
|                      |                  | Class 17.                |               |
| 1st.<br>2nd.         | Jos. C. Peterson | Raymond                  | 12.00<br>8.00 |

#### JUDGING COMPETITIONS.

These competitions were held on the second day of the fair and were open to all farmers and farmers' sons in the province. The competitors were expected to judge several varieties of wheat and oats and to identify several samples of weed seeds. There were twenty young men entered in this contest.

#### Class 18.

| 1st.<br>2nd.<br>3rd.<br>4th. | R. M. Gibson Lacombe St. H. Huxley Lloydminster Lacombe A. Flack Lacombe           | 8.00<br>5.00 |
|------------------------------|--|--------------|
|                              | Class 19.  |              |
| 1st.<br>2nd.<br>3rd.<br>4th. | Wm. Wilson. Bowden. R. M. Gibson Lacombe H. Huxley Lloydminster. J. Black. Bowden. | 8.00<br>5.00 |
|                              | Class 20.  |              |
| 1st.<br>2nd.<br>3rd.         | Wm. Wilson. Bowden  J. C. Rasmussen. Bowden  A. Flack. Lacombe.                    | 5.00         |

#### SILVER TROPHIES.

| Winner of Alberta Pacific Elevator Co.'s Trophy. W. J. Glass, Macleod. Winner of Farm Crops Cup. W. J. Glass, Macleod. Winner of Garton Pedigree Cup. Ernest Swift, Viking. Winner of Brackman-Ker Milling Co.'s Trophy. C. H. Barrett, Lloydminster. |
|---|
| Winner of Calgary Brewing & Malting Co.'s Trophy. G. H. Hutton, Lacombe. Winner of Canadian Pacific Trophy. J. B. Ririe, Magrath.   |

# PUBLIC MEETINGS.

A number of public meetings were held in connection with the seed fair. Speakers were obtained to discuss various subjects of interest to the farmers of Alberta. These meetings were well attended and good discussions followed each address. The following was the programme: `

# WEDNESDAY EVENING, FEBRUARY 8TH.

#### GENERAL SESSION.

Address of welcome—Mayor of Lacombe. Address—W. F. Puffer, M.P.P. for Lacombe. Address—Jas. Murray, Brandon. Address—Hon. Duncan Marshall. Address—Prof. A. Atkinson.

> THURSDAY MORNING, FEBRUARY 9TH. SESSION SUBJECT: WEEDS AND SMUT.

9.30-10.10—The weed situation in Alberta. C. E. Lewis.
10.10-10.30—How may clean land be kept clean? E. H. Malcolm, Killam.
10.30-10.50—How may dirty land be cleaned where summer fallow is impracticable,
D. W. Warner, Edmonton.

10.50-11.05—Discussion. 11.05-11.30—The smut problem. F. H. Reed.

Interspersed with music, etc.

11.30-11.50-Practical pointers on control of smut. A. Lougheed, Bowden.

11.50-12.00—Discussion.

THURSDAY AFTERNOON, FEBRUARY 9TH. SESSION SUBJECT: CROP IMPROVEMENT.

2.00-2.30—Early maturity of grain crops. W. H. McKillican.
 2.30-2.50—Seed fairs and seed competitions as a means of crop improvement.
 H. Huxley.

2.50-3.00—Discussion.

3.00-3.40—The improvement of grain crops by seed selection. W. H. Fairfield. 3.40-4.00—The value of good seed to the farmer. S. Galbraith.

4.00-4.10—Discussion.

4.10-4.40—The Canadian Seed Growers' Association. F. H. Reed. 4.40-5.00—The business end of pure seed growing. W. H. Pawson, Coaldale.

THURSDAY EVENING, FEBRUARY 9TH. SESSION SUBJECT: FORAGE CROPS.

8.00- 8.25—The uses of grasses in Alberta agriculture. W. F. Stevens.

8.25- 8.45—The growing and handling of tame grasses for hay. R. A. Wallace, High River.

8.45- 8.55—Discussion.

8.55 - 9.30—Alfalfa; its value and importance. Prof. A. Atkinson.
9.30 - 9.50—Will alfalfa succeed in Alberta? G. H. Hutton.
9.50-10.10—Practical pointers on alfalfa growing. Thos. H. Woolford, Cardston.
10.10-10.20—Discussion.

FRIDAY MORNING, FEBRUARY 10TH. SESSION SUBJECT: THE SOIL.

10.00-10.45—The theory and practise of dry farming. Prof. A. Atkinson.

10.45-11.00-Discussion.

11.00-11.30—The first year's work on the raw prairie, W. H. Fairfield. 11.30-11.50—Practical pointers on breaking. C. B. Robertson,

11.50-12.00—Discussion.

FRIDAY AFTERNOON, FEBRUARY 10TH. SESSION SUBJECT: THE SOIL (CONTINUED).

2.00-2.40—Soil and moisture conditions in Alberta. Geo. Harcourt. 2.40-3.00—The proper method of summer fallowing for Southern Alberta conditions. H. Mackintosh, Macleod.

3.00-3.10—Discussion.

3.10-3.30—Cultivation for producing large crops where summer fallowing is in-advisable. P. A. Switzer, Lacombe. 3.30-4.25—Methods of cultivation for Central and Northern Alberta. G. H. Hutton.

4.25-5.10-Discussion.

Although the exhibit was not as large as the previous year on account of the yield of grain having been somewhat lowered by drought during the season of 1910, the quality was good and the attendance was greater than that of the previous year.

# ALBERTA FAIRS CONVENTION.

A fairs convention was held in Lethbridge on February 1 and 2, under the auspices of the Alberta Fairs Association. At this convention, dates were set for the various fairs. The following is a copy of the programme:

WEDNESDAY, FEBRUARY 1, 10 o'clock.

Opening of the convention. Presentation of Credentials. President's address. Minutes of the last convention. Report of executive committee. Appointment of resolution committee. Appointment of fair dates committee Address by Hon. Duncan Marshall, Minister of Agriculture. Adjournment.

Wednesday Afternoon Session, 2 o'clock.

Address by H. A. Craig, on "The Managing and Financing of the Fair."

Address by —

(1) H. Huxley, Lloydminster.
(2) John Burn, Sedgewick.
(3) B. Matkin, Magrath; on
"Organization for Fair Day," "Financing the Society," "Work other
than Exhibition for a Society."
General discussion on above subjects.
Adjournment

Adjournment.

Wednesday Evening Session, 8 o'clock.

Address by Prof. Carlisle, Moscow, Idaho, on "Judges' Problems at Fairs" General discussion. Resolutions.

Adjournment.

THURSDAY MORNING SESSION, 10 o.clock.

Report of fair dates committee. Further discussion on resolutions. Election of officers. Adjournment.

All of which is respectfully submitted,

C. E. Lewis, Superintendent of Fairs and Institutes.

# 8.—REPORT OF THE LIVE STOCK COMMISSIONER.

One of the principal lines of work taken up by this branch during the year 1911, was that of securing some definite regulations governing

shipments of live stock.

Up to 1909 the only legislation to which shippers of live stock could point for the protection of their interests was that provided for in *The Criminal Code*, which requires that live stock shall not be kept in cars for more than twenty-eight consecutive hours without the consent, in writing, of the shipper or person in charge, unless they are so placed in the cars that they can lie down and be regularly fed and watered by the attendant; and that stock cars should be

properly cleaned out and sanded at feeding points.

For a great many years it has been the practise of the railway companies to supply box cars in lieu of stock cars for the transportation of five stock. Although the service secured in this way was not generally satisfactory, the shippers were not prepared to object to it because they preferred getting even box cars, to no cars at all. In many instances, however, it was the practice of the railway companies to require that shippers supply their own planking for barricading the doors; this involved an expenditure on the part of the shipper of approximately \$1.25 for each door he had to barricade. A number of complaints were received from shippers on that score and on March 9, 1909, the writer submitted a formal complaint to the Board of Railway Commissioners on the subject and secured an order requiring that whenever a shipper is obliged to supply the necessary material for the car doors he shall be given a credit on his way bill of \$1.25 for each door he has thus to provide for.

Since that time a number of complaints have been received by the writer from shippers on various subjects against which there is no legislation for their protection. Some shippers were subjected to long delays and their animals kept on board cars without feed or water for forty, fifty and in some instances for sixty hours. Other shippers complained of long delays in getting their cars spotted for unloading after reaching their destination; others that they were unable to get information as to when they would proceed through a divisional or junctional point. There were numerous complaints also of overcharging, in cases where box cars had been supplied in

lieu of stock cars.

Owing to the great variety of subjects on which complaints were received the writer decided early in the year that instead of dealing with the subjects piecemeal the best method to pursue would be to submit to the Board of Railway Commissioners for approval a list of regulations covering the entire subject of live stock shipping.

a list of regulations covering the entire subject of live stock shipping. In company with the Honourable the Minister of Agriculture, he went to Ottawa and on February 22, 1911, conferred with the Dominion Live Stock Commissioner, Dr. J. G. Rutherford, on the subject. At this conference it was agreed to draft a set of regulations which would be submitted to the Board of Railway Commissioners in the name of the Dominion Live Stock Commissioner. Accordingly after conferring with a large number of shippers and breeders

of live stock, the following regulations were drafted and forwarded to Ottawa for approval. They were signed by Dr. J. G. Rutherford and submitted to the Board of Railway Commissioners:

Proposed Regulations Submitted to the Board of Railway Commissioners Respecting the Shipment of Live Stock for the Dominion of Canada.

#### INTERPRETATION.

1. In these regulations unless the context otherwise requires—

(a) "Agent" referring to a station agent, shall mean any railway station

agent.
(b) "Applicant" referring to an applicant for cars shall mean any corporation, co-partnership or person who owns live stock for shipment in car lots or who is the agent of the owner of such live stock. (c) "Live stock" shall include horses, cattle, sheep, swine, mules, asses

and goats.

(d) "Car of live stock" shall mean any railway car loaded with live stock in the usual manner of conveying live stock to market.

(e) "Station" shall mean any railway station at which the railway com-

pany is represented by an agent.

(f) "Sub-station" shall mean any point of place on a railway at which freight is received or shipped and at which the company is not repre-

sented by an agent.

(g) "Feeding point" shall mean any place or point at which there is

resting of live stock while en route.

(h) "Shipper" shall mean any applicant to whom one or more cars have been allotted.
(i) "Attendant" shall mean the person named by the shipper in the

way bill as being in charge of one or more cars of live stock.

(i) "Company" shall mean any railway company doing business or operating a railway in Canada over which the Parliament of Canada has Legislative authority.

(k) "Spotting cars" shall mean placing the same at a stock yard so that they may be loaded or unloaded conveniently, or where there is no

stock yard, at a loading chute.

(I) "Book rest" shall mean the signifying by one or more members of a train that he or they have worked the number of hours required by law and are in need of rest.

# ORDERING CARS.

2. When application for one or more cars is received by the agent of any company, the same shall be immediately entered in a book to be kept by the company for that purpose and said book shall contain:

(a) The hour and date when said application was received.

(a) The hour and date when said application(b) The name of each applicant.(c) The place where each car is to be loaded.

(d) The hour and date when shipment is to be made.
(e) The number of each car allotted.
(f) The hour and date when the same was loaded.

(g) The destination of each car.

3. Applications may be made in person, by mail or by telegram to the agent in charge of the station or sub-station from which shipment is to be made.

4. The company shall post in a conspicuous place at each sub-station a notice giving the name of the station at which application for cars to be loaded or shipped from such sub-station must be made.

When determining the station at which application must be made for cars to be loaded and shipped at a sub-station, the company shall take into consideration the convenience of the shipper.

#### ALLOTTING CARS.

- 5. All cars must be allotted by the agent and in the order in which the applications are received.
- 6. A shipper shall not put or place live stock into any car other than the car duly allotted to him.

7. (a) When the company cannot supply or furnish stock cars for all applicants it may substitute box cars therefor, in the proportion of not less than three box

cars for every two stock cars applied for.

(b) When box cars are supplied in lieu of stock cars, as provided in the preceding section, the minimum weight to be charged by the company shall be the weight the company would have been entitled to charge had stock cars been supplied or furnished.

- (c) Before supplying box cars in lieu of stock cars, as provided in section hereof, all the stock cars available at a station or sub-station shall be allotted first in the order in which each application is received by the agent, unless an applicant signifies a preference for box cars.
- 8. A car or cars shall not be re-allotted without the consent of the shipper to whom same were allotted; provided that if a shipper fails to load or to commence loading any car or cars allotted to him within 24 hours after the hour when shipment was to have been made as shown by the car order book, said car or cars may be re-allotted to the applicant or applicants whose names appear next in order on the car order book.

#### SUPPLYING CARS.

- 9. When an application is made for less than ten cars, the same shall be supplied and delivered by the company to the station or sub-station mentioned in the car order book, within five days after the receipt, by the agent, of said application and when an application is received by an agent for ten or more cars the same shall be supplied and delivered to the said station or sub-station within ten days after the receipt of said application.
- 10. Said cars shall be in good order and in fit condition for the transportation of live stock, and the same shall be placed for loading at the stock yards or loading chute as mentioned in said car order book.
- 11. When a shipment is to be made during the winter months to a point more than five hundred miles distant from the place of loading or when a shipment is to be made during extremely cold weather to any point, the company shall as far as possible, supply box cars when application is made therefor.
- 12. The company shall be entitled to make a charge for a minimum weight of 16,000 pounds for each box car supplied under section 11; provided that this section shall not apply when box cars are supplied by the company under section 7 hereof.

## CAR REPAIRER.

- 13. When five or more cars are to be loaded at one station or sub-station for the same train, a car repairer shall be supplied by the company to attend at said station or sub-station during time of loading, to make all necessary repairs.
- 14. When a company fails to comply with the provisions of section 13, each shipper shall receive a credit on his way bill of one dollar (\$1.00) for each car he has had to load without the assistance of a car repairer, as provided in section 13.

## ARRIVAL OF TRAINS.

- 15. Every agent on reasonable demand shall advise a shipper whether or not the train on which the latter proposes to ship live stock is running on time and of the hour at which said train will probably arrive.
- 16. Shipments of live stock when hauled by a way-freight or pick-up may be completed while en route in the direct line of transit between original shipping point and destination, at an extra charge of three dollars (\$3.00) per car for each stop off west of Winnipeg and two dollars (\$2.00) per car for each stop off east of Winnipeg.

## BOOKING REST.

17. When any member of a crew operating a train which is hauling one or more cars of live stock intends to book rest he shall give to the conductor in charge thereof, at least two hours notice of said intention, and on receipt of said notice or at two hours before said conductor himself intends to book rest, he said conductor, shall advise the attendant in charge of said live stock on his train, of the intention to book rest and of the probable delay that will be occasioned thereby,

and said conductor shall ascertain from such attendant if he desires to unload the stock in his charge during the period of such rest, and he shall immediately report the same to the train despatcher in whose division said train is running.

- 18. If said attendant states that he desires to unload and rest the stock in his charge, said despatcher shall immediately upon receipt of said report give the train carrying said live stock precedence over all other trains, except passenger and mail trains, and said train shall be rushed to such point where said stock may be unloaded for feed and water during the time said crew is resting.
- 19. If a properly equipped yard for feeding and watering live stock can be reached within two hours after receipt of the notice mentioned in section 17, said train shall be rushed to said yard for the purpose of unloading, feeding and watering.

#### FEEDING EN ROUTE.

- 20. Shippers, if they so desire, may provide their own feed for live stock during transportation.
- 21. All contracts with the company for the conveying of live stock shall contain a clause in which shippers may make known to the company that they desire to provide their own feed at such points as may be necessary to rest and feed said live stock.
- 22. Shippers who provide their own feed shall be accorded the same privileges in respect to yard room, water and shelter as are accorded those who secure their feed from the company.
- 23. Live stock shall not be detained at a feeding point for more than twelve hours without the written consent of the shipper or attendant.
- 24. Stock yards containing feeding racks and watering troughs shall be provided at junction, divisional and other points where delays occur in forwarding trains, which yards shall have capacity sufficient for feeding and watering such consignments of live stock as ordinarily pass through such points.

## DELAYS AT JUNCTIONS AND OTHER POINTS.

- 25. When a despatcher has reason to believe that there will be a delay of four or more hours in forwarding live stock through a junctional, divisional or feeding point, he shall so advise the conductor on the train hauling said live stock and said conductor shall immediately inform the attendant on such stock of the probable delay and if the attendant desires to unload and rest during such delay, the cars containing the live stock under his charge shall be spotted or placed for unloading before the engine is detached from the train.
- 26. When a train which is to haul live stock from a junctional, divisional or feeding point will be delayed four hours or longer, the agent shall advise at once all attendants who have either loaded or been ordered to load, of such delay and he shall cause all cars that have been loaded to be spotted or placed for unloading if requested to do so by the attendant.

#### DELAY AT LOADING POINT.

27. When a train which was to have hauled live stock from a station, is delayed for four hours or longer, the agent shall at once inform all shippers or attendants who have loaded or have been ordered to load, of the probable length of such delay.

# SPOTTING CARS FOR UNLOADING.

- 28. Cars containing live stock shall be spotted or placed by the company for unloading with as little delay as possible and in no case shall such delay exceed two hours after arriving at point of destination or feeding point.
- 29. Cars shall be spotted or placed for unloading by the company in the order of the arrival of the trains in which they were included and in the order of their position in such train beginning at either the front or the rear end.
- 30. After arrival at point of destination live stock shall not be moved from the stock yard until the freight is paid, but this shall not apply to abattoirs or companies having special arrangement for unloading before the freight is adjusted.

#### STOCK TRAINS.

- 31. Any train containing ten or more cars of live stock shall have precedence over all other trains excepting passenger or mail trains.
- 32. Cars containing live stock shall not be included in a way-freight train beyond the first divisional point after they were picked up, unless there are no through freight trains running over said line or unless they are consigned to a point in the next succeeding division of said railway.
- 33. Cars containing live stock shall not be included in a ballast train without the written consent of the shipper or attendant.

## TRANSPORTATION OF ATTENDANTS.

34. It shall be the duty of the railway company to provide suitable and proper accommodation for the attendants on live stock on the same train in which said live stock is hauled and such accommodation shall be open to and available for all attendants on live stock in any train as soon as such train is made up.

#### PROSECUTIONS AND PENALTIES.

- 35. Any person, co-partnership, company or corporation who shall violate section 6 hereof, shall for every car taken or used in contravention of the said section be liable on summary conviction before a police magistrate or two justices of the peace to a penalty of not less than \$10.00 nor more than \$50.00 and costs for every such car so taken.
- 36. Any person, co-partnership, company or corporation who shall violate any of the provisions of sections 9, 10, or 11 shall be dealt with and punished by the Board of Railway Commissioners for Canada.
- 37. Any person, co-partnership, company or corporation who shall violate any of the provisions of these regulations, for which violation no penalty is herein specifically provided, shall on summary conviction before a police magistrate or two justices of the peace, be liable to a fine of not less than \$5.00 nor more than \$50.00 and costs for each offence.
- 38. No conviction, judgment or order in respect of any offence against these regulations shall be removed by certiorari or otherwise into any of His Majesty's Courts of Record
- 39. The imposition of any such penalty shall not lessen or affect any other liability which any company, co-partnership, person or corporation may have incurred.

These regulations came up for discussion at the sitting of the board at Calgary on September 8, 1911, and at Edmonton on September 11, 1911. The discussion at Calgary was somewhat informal and consisted of the endorsation of the regulations by the United Farmers of Alberta through the president and secretary of that organization.

The case was formally introduced at the sitting held at Edmonton on September 11, 1911, by Mr. L. F. Clarry, Deputy Attorney-General for the province, and it was briefly spoken to by the writer: Mr. H. C. McMullen, General Live Stock Agent for the Canadian Pacific Railway Company, acted as spokesman for the railway companies. Before Mr. McMullen had completed his argument an adjournment was taken for lunch.

After adjournment the representatives of the Canadian Northern and Grand Trunk Railway Companies objected to the continuance of the discussion and disclaimed any responsibility for the statements of Mr. McMullen.

After considerable discussion it was agreed that the railway companies should have thirty days in which to submit a written defence and that the writer should have fifteen days in which to reply,

after which, evidence was to be taken before a commissioner and all of the arguments and evidence were to be forwarded to the Board of Railway Commissioners for consideration. Mr. Frank Ford, K.C., of Edmonton, was mutually agreed upon as the commissioner to act in the matter.

The railway companies failed to file their written objections within the time specified and the hearing before the commissioner

was never held.

On December 19, 1911, the matter came up for hearing before the Board of Railway Commissioners sitting at Ottawa. On this occasion the railway companies again requested delay, claiming that they were not yet prepared to take the matter up. The writer agreed that judgment might be suspended for a reasonable time, but as he had a number of witnesses present, he wished to submit their evidence. This was agreed to by the board and the regulations were spoken to by Dr. J. G. Rutherford, Dominion Live Stock Commissioner, Mr. Jas. Walters, a shipper and grower of live stock of Clive, Alberta, and Mr. R. J. Phinn, an exporter of live stock from Moosomin, Saskatchewan, and the writer. Up to this writing no further action has been taken.

Notice was received from Mr. J. E. Walsh, K.C., Managing Director of the Transportation Branch of the Canadian Manufacturers' Association, stating that the railway companies had submitted to the board of Railway Commissioners for approval a new live stock shipping contract. Copies of this contract were sent, with criticisms and remarks by the writer, to the various shippers of the province and to the Alberta Live Stock Associations, Calgary, and the Alberta

Provincial Live Stock Associations, Edmonton:

PROOF. ......Company.

## SPECIAL LIVE STOCK CONTRACT.

|  | Station                | 191            |
|--|------------------------|----------------|
| THIS AGREEMENT, in duplicate, made this                              | day of.                |                |
| 191, by and between the  |                        | Company        |
| (hereinafter called the "Carrier") and                               |                        | . (hereinafter |
| called the "Shipper").  Wrangsgrap that the shipper has delivered to | the carrier live steel | of the kind    |

WITNESSETH, that the shipper has delivered to the carrier live stock of the kind and number, and consigned and destined by the shipper as follows:

| Advance Charges \$. | Consignee, Destination, ETC. | Number and Description<br>of Stock.<br>(Shipper's Load and Count) | WEIGHT<br>Subject to Correction. |
|---------------------|------------------------------|---|----------------------------------|
| Advance Changes S   |                              |   |                                  |
| Advance Chances &   |                              |   |                                  |
| Adres nos Changes & |                              |   |                                  |
| AUVAILLE OHALEES @  | Advance Charges \$           |   |                                  |

in effect on the date of this contract, and upon the following terms and conditions:

1. That the shipper or the consignee is to pay freight thereon to the carrier at the rate of .........per one hundred pounds which is the lower published tariff rate and is based upon the express condition that the carrier shall in no case

be liable for loss or injury or damage to said live stock in excess of the following agreed valuation or a proportionate sum in any one case upon which valuation the rate charged for the transportation of the said live stock is based and beyond which valuation neither the carrier nor any connecting carrier shall be liable in any event, whether the loss, injury or damage occurs through the negligence of the carrier or any connecting carrier or their or either of their employees or otherwise,

Horses or mules not exceeding \$100 each.

Cattle not exceeding \$50 each

Any other domestic animal not exceeding \$10 each.

In no event shall the carrier's liability exceed \$1,200 upon any one carload. (See criticism No. 1).

2. That the shipper is to repay all charges advanced by the carrier or connecting carriers upon or for the transportation of said live stock.

3. That the shipper is at his own risk and expense to load, feed, water and in all respects take care of the said live stock while in the cars and unload the same. In case any of the employees of the carrier or any connecting carrier load, unload, feed, water or otherwise care for the said live stock, or assist in doing so, they shall be treated as the agents of the shipper for that purpose, and not as the agents of the carrier. (See criticism No. 2

4. That if the destination of the shipment of said live stock is more than one hundred miles from the point of shipment, the shipper or some person on his behalf (not an employee of the carrier) must unless special arrangements are otherwise made in writing, accompany and care for the shipment throughout the journey.

5. That the shipper shall see that all doors and openings in said car or cars are at all times so closed and fastened as to prevent the escape therefrom of any of the said live stock, and neither the carrier nor any connecting carrier shall be liable on account of the escape of any of the said live stock from said car or cars.

(See criticism No. 3.)

6. Neither the carrier nor any connecting carrier shall be liable for or on account of any loss, damage, injury or delay sustained by said live stock, occasioned by any or either of the following causes, to wit: Overloading, crowding one upon another, kicking or goring, bruising or wounding, inherent vice, loading or unloading, suffocation, fright, burning of hay or straw, or other material used for feeding or bedding, or by heat, cold or by changes in weather; or delay caused by stress of weather or obstruction of track, or by the act of God, the King's or public enemies, riots, strikes, the act or default of the shipper, the authority of law, quarantine, or causes beyond the carrier's or connecting carrier's control. (See criticism No. 4.)

The carrier or any connecting carrier liable on account of loss, injury or damage to any of the said live stock, upon reimbursing to the insurer the premiums paid in respect thereof, shall have the full benefit of any insurance that may have been effected upon or on account of said live stock, so far as this shall not avoid the policies or contracts of insurance. The insurer shall assign any such insuarnce as a condition to his becoming entitled to payment of any loss hereunder.

criticism No. 5.)

7. That in the event of any unusual delay or detention of said live stock caused by the negligence of the carrier or its employees or any connecting carrier or its employees, or otherwise, the shipper agrees to accept as full compensation for all loss or damage sustained thereby, the amount actually expended by the shipper in the purchase of necessary food and water for the said live stock while so detained. (See criticism No. 6.)
No carrier shall be liable for any loss or damage unless written notice of such

loss or damage shall be made and delivered to the agent of the carrier at the point of delivery or point of destination within five days from the time said live stock is removed from said car or cars; and if any loss or damage occurs upon a line of a connecting carrier, then such carrier shall not be liable unless notice shall be given in like manner and delivered in like time to some proper officer or agent of

the carrier on whose line the loss or injury occurs.

8. In consideration of the carrier or any connecting carrier allowing the person or persons accompanying said live stock under this contract, to make the journey by the same train as the said live stock either in the caboose or in the same car as the said live stock or otherwise, for the purpose of caring for the same, the shipper expressly agrees that neither the carrier nor any connecting carrier shall be liable either for loss of life or personal injury however caused to the person or persons accompanying said live stock, whether such person or persons are carried free or at a rate less than full fare and whether such injury is sustained while such persons are actually accompanying such stock or returning to point of origin after delivery of same at destination has been affected or otherwise travelling upon transportation issued in connection with this contract; and the shipper shall and will indemnify and save harmless the carrier and any connecting carrier therefrom. (See criticism No. 7.) WITNESS:

The shipper covenants with the carriers that all persons accompanying any such live stock shall, at the time of engagement, be fully informed as to the provisions of this clause, and that the Company may assume that all such persons accept such transportation with full knowledge of the terms of the agreement that the carriers shall not be liable either for loss of life or personal injury however caused to such person.

9. The word "shipper" in this contract includes the owner of said live stock,

and his, or her or their personal agent or agents.

10. Any alteration, addition or erasure in this contract shall be signed or initialled in the margin by an agent of the carrier making this contract, and if not so signed or initialled shall be without effect, and it is further agreed that under no circumstances shall any officer, agent or employee of the carrier waive verbally or otherwise the provisions of this contract or any of them.

do hereby acknowledge that I had the option of shipping the above described live stock at a higher rate of freight than that payable hereunder and according to the classifications and tariffs of the carrier or connecting carriers, the effect of which I understand would be to remove the limitation on the amount of damages for which the carrier or connecting carrier might be liable as herein provided and that I have voluntarily elected to accept the limitation of liability herein contained to enable me to obtain the reduced freight rate above mentioned.

| THE.             |           |
|------------------|-----------|
|                  | on Agent. |
| WITNESS MY HAND, |           |
| By. Shipper      | 's Agent. |

Proof as decided upon at meeting of Advisory Committee. Montreal, Que., December 28th, 1910.

## RELEASE.

I We, the undersigned, hereby declare that I am we are bona fide in charge of the consignment of live stock referred to in the within contract, and in consideration of the carrier and any connecting carrier permitting me us whether with or without charge for my our carriage, to make the journey by the same train as the said live stock, either in the caboose or in the same car as the live stock, I we voluntarily assume all risk of accident to person or property and declare that such permission is given upon the express condition that neither the carrier nor any connecting carrier is to be held liable either to me us or to my our representatives, for loss of life or personal injury however caused (while making such journey or while upon the premises of the carrier or the premises of any connecting carrier) and I we hereby release and discharge the carrier and any connecting carrier from all claims arising by reason of any injury or injuries which I we may sustain on or during said journey or while upon the premises of the carrier or any connecting carrier whether such injury or injuries be caused by the negligence of the carrier or of any connecting carrier or its employees or otherwise.

| Signature of Man or Men in charge. (To be obtained by Agent.) | Verification of signature of Man or Men<br>in charge.<br>(To be obtained by Conductor.) |
|---|---|
| Station 191   |   |
|   |   |
|   |   |
|   |   |
|   |   |

# NOTICE TO AGENTS AND CONDUCTORS.

AGENTS must require those entitled to free passage or reduced fare in charge of live stock under the Special Live Stock Contract to write their own names on

the lines above in the space provided for that purpose.

Conductors must verify the signature of man in charge by requiring him to reproduce his signature on the lines above in the space provided for that purpose, for comparison with that on the original Release printed above. If the signature thus obtained does not correspond with that on the Release, Conductors must require attendant to sign the Release.

If for any reason the Release has not been signed by the attendant in charge

before leaving shipping station the Conductor must require the execution of the

Release by obtaining signature of attendant thereon.

# Criticisms and Remarks on Special Live Stock Contract.

1. (a) Reference is made to the "lower published tariff"; a copy of the higher published tariff should be asked for.
(b) Valuation of carloads too low. The company should be liable for the full

value of the stock; the burden being on the shipper to prove the value.

2. (a) Section 3 of the contract should have the provision that proper equipment for loading, unloading, feeding and watering has been provided and that the same was in good order.

(b) The burden of proof that the equipment was in good order should be on

the company

3. (a) The provision should be added that the car was in good order and properly equipped with the "bull bar" and fastenings.

4. (a) In section 6 of the contract the exemption from liability for injuries sustained in loading and unloading, should be made subject to the provisions of

(b) The exemption from liability because of fire occasioned by the burning of hay or straw used for feeding, should have the provision that the car was equipped with feed racks and properly sided to protect the hay in the racks against fire.

(c) The word "strikes" should be omitted.

5. (a) Subsection 2 of section 6 should be stricken out.
6. (a) The first clause of section 7 of the contract should be stricken out.
7. (a) When an attendant is paying for his return passage, the carrier should be liable to him for injuries sustained the same as it is to other passengers travelling at the same fare.

The above are the criticisms that occur to me. It is probable that still others may occur to you. Please arrange to be present at the meeting that has been called to discuss this contract in order that the objections of the shippers may

be effective.

Yours very truly, W. F. STEVENS, Live Stock Commissioner.

The writer attended meetings of these various interests and the following action was taken:

On subsection 1 of section No. 1 of the contract a motion was adopted as follows: We object to any special contract based upon a lower published tariff rate, unless accomponied by and attached to a copy of the contract based upon the standard or higher published tariff rate. On subsection 2 of section No. 1 of the contract the criticisms offered by Mr. Stevens were adopted.

No action was taken regarding section No. 2 of the contract,
On section No. 3 of the contract the criticisms offered by the Live Stock Com-

missioner were adopted.

On section No. 4 of the contract no action was taken.

On section No. 5 of the contract the criticisms and suggestions offered by the

Live Stock Commissioner were adopted.
On subsection No. 1 of section No. 6 of the contract the criticisms and suggestions offered by the Live Stock Commissioner were adopted. On subsection of section No. 6 the provision was added that this subsection should apply only when compensation for damages has been made to the shipper on the basis of the full value of the stock.

As regards section No. 8 of the contract a motion was carried directing attention to the fact that in as much as section No. 4 of the contract a mother than the fact that in as much as section No. 4 of the contract makes it necessary for somebody to accompany shipments of live stock when being conveyed for distances of more than one hundred miles, the word "allowing" which appears in said section No. 8 is inappropriate and the contract should stipulate that attendants be accorded suitable accommodation and that the company be made liable for all injuries sustained by such attendant when the same was occasioned by the wilful act or neglect of the company or any of its employees.

On sections 9 and 10 of the contract no action was taken.

Regarding section No. 11 of the contract it was the opinion of the shippers that the provisions of this section should apply only when said contract based upon the lower published tariff rate was accompanied by and attached to a copy of the contract based upon the higher published tariff rate and the same had been duly explained by the agent.

On December 9, 1911, a convention of all the live stock interests of the Dominion was held in Toronto, Ontario, for the purpose of discussing this new Live Stock Sihpping Contract and determining what action they would take regarding it. The following were present:

D. McRae, Dominion Sheep Breeders' Association.

D. McRae, Dominion Sheep Breeders' Association.
S. R. Parsons, Canadian Manufacturers Association.
A. W. Talbot, Ontario Local Live Stock Snippers Association.
Samuel Hisey, Creemore Live Stock Shippers Association.
A. B. Quinn, Toronto Live Stock Association.
William Jones, Zenda, Ontario, Dominion Swine Breeders Association.
J. B. Shields, Toronto Live Stock Association.
W. F. Stevens, Live Stock Commissioner.
Chas. S. Hotchkiss, Cattle, Sheep and Swine Breeders' Associations, Alta.
Geo. Lane, Horse Breeders' Association, Alberta.
A. E. Peterman, Toronto Live Stock Exchange.
(Miss) E. A. Hind, Manitoba Live Stock Breeders' Association

(Miss) E. A. Hind, Manitoba Live Stock Breeders' Association. Stephen Benson, Manitoba Live Stock Association.

Stephen Benson, Manitoba Live Stock Association.

John Graham, Manitoba Live Stock Association.

A. J. McKay, Manitoba Live Stock Association.

P. M. Bredt, Live Stock Commissioner, Saskatchewan.

R. J. Phinn, Winter Fair Board, Saskatchewan.

E. Maybee, Toronto Live Stock Exchange.

W. J. Neely, Toronto Live Stock Exchange.

F. L. Hunnisett, Toronto Live Stock Exchange.

J. S. McLean, Toronto Live Stock Exchange.

E. C. Fox, The William Davies Co., Ltd.

J. E. Knuckey, Swift Canadian Co., Ltd.

Robert Hess, Howick, Quebec.

W. S. Tilson, Montreal Board of Trade.

J. E. Walsh, Canadian Manufacturers' Association, Winnipeg Board of Trade and Western Live Stock Shippers' Association.

Mr. D. McRae was elected chairman and Mr. J. E. Walsh was

elected secretary.

After some discussion it was decided that it would be advisable to employ counsel to act on behalf of the breeders at such conferences as might be held with the railway companies and to present the matter to the Board of Railway Commissioners if necessary. Mr. M. K. Cowan, K.C., was selected as the counsel for all the live stock interests, except the Shorthorn breeders of the Dominion. They chose as their counsel Mr. Peter White, K.C., Pembroke, Ont., President Dominion Shorthorn Breeders' Association. The counsel thus selected were advised of their appointment and requested to be present at once.

After a brief presentation of the history of the law relating to live stock shipments by Mr. Cowan, the regulations were taken up in detail and the opinions, objections and suggestions of all the delegates were secured. It was mutually agreed that upon the two most important questions raised by this live stock contract the delegates would force the matter to go before the Board of Railway Commissioners rather than assent to the demands of the transportation companies. These points were that they would not release the railway companies from responsibility for losses sustained because of negligence of the companies or their employees, as set forth in clauses I and 8 of the proposed contract, and that they would not relieve the company of responsibility for negligence in case of injury to an attendant upon live stock in transit, as set forth in clause 8, nor would they agree that it should be the duty of the shipper to secure the signature of such attendant to the release of the company from such responsibility, as set forth in clause 9 of the proposed contract.

At the present writing, December 31, 1911, no further action had been taken and the matter is still in the hands of counsel with instructions to notify all parties interested, of progress being made and to call another convention in case circumstances should arise which would make such a convention advisable,

# Stock Yard Improvement.

Some progress has been made in the matter of stock yard im-

provement during the year 1911.

Although two years had elapsed since the order was issued directing the railway companies operating in the province to make the improvements in their stock yards specified in the report of Mr. Frank Dillinger, dated August 3, 1909, there were several points at which the terms of the order had not been carried out. The principal points that were being thus neglected were Cardston, Wetaskiwin and Vermilion.

# CARDSTON.

The difficulty existing at Cardston was that owing to the large rainfall and the tenacious soil peculiar to that district, the drainage of the yards became very bad.

Mr. Dillinger's report on these yards reads as follows:

There is a two pen yard here in good repair; one pen very large; drainage very bad. The large pen should have a fence put through the centre making two pens out of it and another large yard erected at the north end of the present yard with a wing drive and gate at the end of the drive. The bottoms of the pens should be cleaned out and floored with old ties and covered with 5 or 6 inches of cinders. Fence on the loading chute is only about 3½ feet high and cattle jump out. This fence should be two feet higher; also requires water trough on the ground and a new gang plank. Water can be had at a depth of 15 feet and a well and pump should be installed. Where the wing drive now is, it is very difficult to get cattle into the yard on account of buildings too close to yard and stampedes the cattle.

203 cars of stock shipped from here last year. 292 cars of stock shipped from here in 1910.

The attention of Mr. Naismith, Superintendent of the Alberta Railway and Irrigation Company, had been repeatedly directed to the fact that these yards had not been cleaned out and paved with ties as ordered. He maintained that the improvements made by the company were all that were required. A complaint was submitted on the matter to the Board of Railway Commissioners and came up for hearing at Kipp, on September 8, 1911. After hearing the arguments in the case the Board ordered an inspection of the yards by

Inspector McCaul. However, before the inspection was made the company installed the paving and covered the same with gravel and the inspector reported the yard in good order.

#### WETASKIWIN.

Following is a copy of Mr. Dillinger's report regarding the yards at Wetaskiwin.

There is a six-pen yard here, four small and two very large pens; drainage good in all but three pens which require to be floored with old ties and covered with cinders. There are two small shelter sheds that have been wrongly constructed, have no trough or racks; should have a two-pen shelter shed, water troughs and racks; water can be had at a depth of 25 feet and well and pump should be installed; has a loading wing and a wing drive and two chutes, everything in good repair.

313 cars shipped last year.

The order regarding paving was promptly complied with; a well with pump had also been installed, but the latter was of such an inferior and flimsy nature and was so placed that the cattle were crowded against it while being driven into the yards, with the result that it was out of order most of the time. The order to install feeding racks and shelter sheds had not been complied with up to June 1, 1911.

The attention of the General Live Stock Agent of the Canadian Pacific Railway was directed to the matter and he was urged by the

writer to attend to it at once.

The writer examined these yards in July and found the shelter sheds had been erected and a new pump had been installed, but the workmen had left without constructing the feeding racks. He thereupon sent a complaint regarding the matter to the Board of Railway Commissioners and one to the railway company interested. Before the board reached Alberta the feeding racks were built and the matter was dropped.

#### VERMILION.

The conditions existing at Vermilion and the requirements of the yards at that place as set forth by Mr. Dillinger were as follows:

There is a three-pen yard here, pens very large; repairs good with the exception that gates should have fastenings on them; they have to be tied with rope or wire; drainage good; wing drive requires some board put on; should have water trough for hogs and shelter sheds and hay racks on account of stock having to be kept over night; water over 100 feet deep, but can be had at town well 500 feet away. There are two chutes on this yard. Loading chute on each wing should be rearranged.

16 cars shipped last year.

Up to July 1st, 1911, nothing had been done to provide the feeding racks required by the order. The attention of Mr. W. A. Brown, Superintendent of the Canadian Northern Railway, was directed to the matter. He assured the writer that the matter would be attended to without delay. The writer has been informed that the feeding racks were installed as ordered but up to the present writing has not had time to examine them personally.

# Sheep Commission.

During the month of April the Sheep Commission, consisting of Mr. Wm. Dryden of Brooklin, Ontario, and Mr. W. T. Ritch of

Ottawa, Ontario, which had been appointed by the Dominion Government for the purpose of inquiring into the sheep industry and of making such suggestions as might tend to place this industry on a more prosperous basis, visited this province. Three sittings in all were held, and attended by the writer.

## LETHBRIDGE.

The first sitting was held in Lethbridge on March 27-28, 1911, and the majority of those who appeared to give evidence and make suggestions were ranchers who were running flocks of from two to three thousand head on lands leased from the government, or upon the unoccupied lands of speculators. The matters complained of generally by them were the low price of wool and the difficulty in securing pasture. These men represented that there were in the southern portion of the province large areas of rough, stony and sandy lands which are unsuited for agricultural purposes and which could with greater benefit to the province be leased to stock men for grazing purposes, rather than to be occupied for a period by farmers who would require but two or three unfavourable seasons to put them out of business. They also represented that west of the foot hills and in the mountains there are numerous valleys which would sustain one or two flocks of sheep each during the summer months, and they asked that permission be granted to flockmasters to occupy. these valleys during that time.

#### CALGARY.

The sitting at Calgary was held on March 29-30, 1911, and the majority of those who attended were breeders of pure bred stock. They also complained of the prices paid for wool which seemed to them to be unnecessarily low. The difficulty of protecting their flocks against coyotes and wandering dogs was also complained of and they suggested that the Dominion Government grant what assistance it is able to do in marketing the wool product of the province and to reduce the duty on woven wire fencing in order to enable settlers to fence their lands properly and protect their flocks against the depredations of coyotes and dogs.

# EDMONTON.

The sitting at Edmonton was held on March 31 and April 1, 1911, and was attended principally by farmers who are keeping a small flock of sheep. The complaints and suggestions were very similar to those received at the Calgary sitting. One settler, however, complained that a number of his sheep were dying and that he had been informed that the cause of the difficulty was "gid." After inquiring closely regarding the symptoms he was advised by Commissioner Dryden that the difficulty was not "gid" but indigestion, as a result of being kept too long on dry feed. Mr. Dryden suggested that if he had no root crop available he should purchase a quantity of wheat bran and mix about one half pound of epsom salts with each bag of bran and allow the sheep to eat it.

At the close of each sitting Mr. Ritch gave an address on the general subject of wool and mutton production in Great Britain, Australia, New Zealand and the Dominion of Canada. He pointed out the defects in the methods of the Canadian sheep ranchers and

the difficulties under which they were labouring. He promised to make such recommendations as in his opinion would assist them in overcoming these difficulties and would enable them to improve their methods of handling their wool product.

He stated that as a general proposition they would find that the best means of securing full value for their wool in Canada would be to put it up in such condition as would cause it to find ready sale

on some other market.

He claimed that Great Britain is the world's greatest wool market and the only foreign market that is open to the Canadian wool grower. He said the British wool buyer is keen to secure everything of a good quality that is put up in the right manner, but he is very indifferent to an inferior article or one put up in a careless manner.

He informed the wool growers that the greatest difficulty connected with marketing Canadian wool is that the sheep are not properly dipped and the wool did not look as well nor was it in as healthy condition as is the wool from New Zealand and Australia where the flockmasters are very careful to dip their sheep and protect them against disease and vermin. He recommended a poisonous dip in the spring and a non-poisonous dip in the autumn. The reasons assigned for this were that the poisonous dip tended to open up the fleece, and the animal would not be so likely to suffer from heat during the warm days which sometimes come early in the spring. The reasons assigned for recommending a non-poisonous dip in the fall is that this dip tends to close up the fleece and make it less easily penetrated by rain and snow and assures a greater degree of warmth during the winter months.

Mr. Ritch also strongly urged the breeders to discontinue the use of binder twine for tying up the fleeces and jute bagging for their bales. He stated that the vegetable fibre of the jute bagging and binder twine gets mixed up with the wool and it is impossible to manufacture a good grade of cloth where these fibres are present,

no matter how good the wool itself may be.

He exhibited samples of hemp bagging as used by the British wool growers and of the bagging used by Australian and New Zealand wool growers. He also exhibited samples of paper lined jute bagging which he thought would be suitable for use by Canadian farmers and flockmasters in that it was very cheap and afforded ample protection for the fleeces against being contaminated by the vegetable fibres of the jute bagging.

A great deal of interest was manifested by the wool growers in these addresses and Mr. Ritch was not only able to arouse a keen interest in the sheep industry as a whole, but he made valuable suggestions regarding the means of making this industry much more

profitable in the future than it has been in the past.

A particular feature of the industry during the year 1911, which in the opinion of the writer is traceable in part at least to the work of Messrs. Ritch and Dryden, is that a much larger number of sheep were placed on Alberta farms and feed lots during the autumn months.

At the present writing these flocks are doing well and there is every reason to believe from present indications that sheep raising and the winter feeding of sheep can be made a profitable industry in this province.

W. F. STEVENS,

Live Stock Commissioner.

# 9.—REPORT OF THE PROVINICAL MEDICAL OFFICER OF HEALTH.

SIR,—I beg to submit a synopsis of the work performed in this branch of your department.

## I .- PUBLIC HEALTH.

On the 16th of December last the present Public Health Act was assented to by the Legislature, to come into force the first day of March. 1911.

#### REGULATIONS.

It was thought that by the latter date the regulations made by the Provincial Board of Health under power conferred on the board by the Act would be completed; but it was found that the work entailed in the preparation of these regulations caused some delay, and it was not until the 9th of June that the regulations were approved by the Lieutenant Governor in Council and these regulations became

I am glad to be able to report that the administration of public health matters throughout the province has been greatly facilitated by these regulations notwithstanding that they have created a great deal more work in this office, and with it much more responsibility entailed upon the part of the government officials whose duty it is to see that the requirements of the Act are fulfilled. Since the regulations came into force, they have been found to work without such friction as might reasonably be expected to occur from a complete change of a set of laws.

In connection with these regulations I may be permitted to quote from a letter which was received at this office from Doctor Montizambert, Director General of Public Health at Ottawa, whose opinion on any matters pertaining to public health cannot be questioned.

I studied with much interest during my trip east a copy of the Public Health Act of the Province of Alberta, which you gave me, and as to which you asked me to freely write my opinions. I would say that with regard to the Act respecting Public Health it seems to me most complete and admirable.

The work of the provincial board has not been centralized so that the work is carried out by the Provincial Medical Officer of Health, the Provincial Sanitary Engineer and the Provincial Bacteriologist, all of whom are officers of the Department of Agriculture, and who outside of the board have the direct management of different divisions in respect to public health.
On April 8, the following order was issued by the Provincial

That the discretionary power granted to the board under section 12 (2), which has been exercised up to the present time shall not be exercised beyond the 31st day of December, 1911, and that all cities and towns having a sewerage system in operation must have completed a sewage disposal system satisfactory to the board on or before that date, and that this order shall apply also to all packing plants and tanneries;

Provided that in the case of the two latter they shall be permitted to direct their effluent into any sewerage system having a purification system satisfactory

to the Provincial Board.

This above order was sent to the secretary-treasurers of Edmonton, Calgary, Medicine Hat, Lethbridge, Wetaskiwin, Strathcona, Stettler, Macleod, Red Deer, and also to the managers of J. Y. Griffin

Co., Edmonton, and P. Burns Abattoir Co., Calgary.

To date certain plans and specifications for the installation or extension of water or sewerage systems have been submitted to the board, as called for under sections 11 and 12 of the Public Health Act, and upon the approval of the board certificates have been issued to the following cities and towns, viz: Gleichen, Camrose, Medicine Hat, Wetaskiwin, Lethbridge, Ponoka, Macleod, Olds, Cardston, Calgary, Carmangay, Claresholm, Red Deer and Canmore.

The following are the number of cases of contagious and infectious disease, respectively set opposite their names, which have been

reported at this office for the year:

| Typhoid fever.<br>Smallpox     |      |    | <br> |       |    |      | <br>I  |   |        | ٠.  |    |   |     |    |   |    |    |   |    |     |  | ٠. |   |   |   | 665 |
|--------------------------------|------|----|------|-------|----|------|--------|---|--------|-----|----|---|-----|----|---|----|----|---|----|-----|--|----|---|---|---|-----|
| Smallpox                       |      |    |      |       |    |      |        |   |        |     |    |   |     |    |   |    |    |   |    |     |  |    |   |   |   | 81  |
| Chickenpox                     |      |    |      |       |    |      |        |   |        |     |    |   |     |    |   |    |    |   |    |     |  |    |   |   |   | 212 |
| Diphtheria                     |      |    | <br> |       |    |      | <br>   |   | <br>į. | : . |    | ı |     |    |   |    |    |   |    |     |  |    |   | ı |   | 179 |
|                                |      |    |      |       |    |      |        |   |        |     |    |   |     |    |   |    |    |   |    |     |  |    |   |   |   |     |
| Scarlet fever<br>Measles       |      |    | <br> |       |    |      |        |   |        |     |    |   |     |    |   |    |    |   |    |     |  |    |   |   | _ | 673 |
| Ervsipelas                     |      |    |      |       |    |      |        |   |        |     |    |   |     |    |   |    |    |   |    |     |  |    |   |   |   | 50  |
| Tuberculosis                   |      | 1. |      |       | i  |      |        |   |        |     | ·  |   |     | ĺ. |   | ٠, | ·  | • | ì  | • • |  | •  | 7 |   | • | 48  |
| Mumps                          |      |    |      |       |    |      | <br>Ì. | • | <br>•  |     | ,: |   |     | •  | • | •  |    |   | ٠. |     |  |    | • |   |   | 17  |
|                                |      |    |      |       |    |      |        |   |        |     |    |   |     |    |   |    |    |   |    |     |  |    |   |   |   |     |
| Whooping Coup<br>German measle | 511. |    |      |       |    |      |        |   |        |     |    |   |     |    |   |    |    | 4 |    | 2 . |  |    |   |   |   | 00  |
| German measie                  | D    |    |      | <br>- | 10 | w 15 |        |   | 10     |     | -0 |   | 250 | -  |   |    | -0 | ш |    |     |  | ш  |   |   |   | DD  |

Elsewhere will be found the usual mortuary statistics. A different method of classifying and recording these diseases for the various cities, towns and villages, and outlying districts will be made necessary this year due to the change in the regulations which deal with the reporting of all notifiable diseases.

To date thirty-four permits for disinterment and removal of

corpses have been issued.

The reports of the Provincial Medical Inspectors, namely, Doctor Barrow and Doctor Norman, are as follows:

Edmonton, December 31, 1911.

To Dr. L. E. W. IRVING, Provincial Medical Officer of Health.

Owing to the great increase of office work much of my time has been spent at the office, and I have consequently done far less travelling through the country during the year 1911 than during the three preceding years.

Below is a list of the places visited and the purpose of the visit:

| DA'   | TE       | NAME OF PLACE           | NAME OF DISEASE  |
|-------|----------|-------------------------|--|
| Jan.  | 12-13    | Carbon                  | Scarlet Fever.   |
|       | 16       | Edmonton                | Destitute case.  |
|       | 17       | Clover Bar Mines        | Typhoid.   |
|       |          | Vegreville              | Inspection of general health. (Diphtheria.)                  |
|       | 27       | Edmonton                |  |
| Feb.  | 1        | Edmonton                | Destitute cases.   |
|       | 2        |                         | Scarlet Fever.   |
| 3.6   | 2        | Edmonton                | Destitute case.  |
| Mar.  | 3        | Blairmore<br>Coleman.   | Senitation   |
|       | 9        | Millet                  | Smallnox   |
|       | 13       | Bickerdyke              |  |
|       | 14       | Edson                   | Sanitation.  |
|       | 15       | Prairie Creek           |  |
|       | 16       | Edson                   | Sanitation.  |
|       | 31       | BlackfaldsBlackfalds    | Scarlet Fever.   |
| April | 1        | Blackfalds              | Scarlet Fever.   |
| July  | 4        | Cooking Lake            | Scarlet Fever.   |
|       | 5        | Millet                  | Scarlet Fever.   |
|       | 7        | Cooking Lake            | Scarlet Fever.   |
|       | 12       | Carstairs               | Scarlet Fever and Diphtheria.                                |
|       | 13       | Calgary                 | Inspection of general health.                                |
|       |          | Bassano.                | Smallpox.  |
|       | 21       | Morinville              |  |
| Aug.  | 9        | Bassano                 | Sanitation.  |
|       | 10       | Strathmore              | Sanitation.  |
|       | 11<br>12 | Medicine flat           | Diphthoria   |
|       | 21       | IrvineCooking Lake      | Scarlet Fever.   |
|       | 22       | North Edmonton          | Scarlet Fever  |
|       | 23       | North Edmonton          | Scarlet Fever.   |
| Oct.  | 5        | High River              |  |
| 000.  | 6        | Lethbridge              |  |
|       | 6        | Raymond                 | Smallpox.  |
|       | 7-9      | Lethbridge              | Typhoid Fever.   |
| April | 3        | Calgary                 | Inspection of general health.                                |
|       | 4        | Carbon                  | Measles.   |
|       | 7        | Viking                  | Sanitation.  |
|       | 10       | Blackfalds              |  |
|       | 11       | Red Deer                | Inspection of general health.                                |
|       | 11       | Blackfalds              | Scarlet Fever.   |
|       | 12       | Lacombe.                | Inspection of hospital.<br>Inspection of isolation hospital. |
|       | 13<br>18 | EdmontonBlackfalds      |  |
|       | 19       | Irvine                  |  |
|       | 19       | Medicine Hat            | Inspection of hospital.                                      |
|       | 20       | Bow Island              |  |
|       | 22       | High River              |  |
|       | 24       | Red Deer                | Inspection of isolation hospital.                            |
| May   | 3        | Vermilion               |  |
| 2.203 | 4        | Vegreville              | . Inspection of hospital.                                    |
|       | 11       | Lethbridge              | Inspection of Galt hospital.                                 |
|       | 11-12    | 2 Burdette              | Scarlet Fever.   |
|       | 12-14    | 5 Bow Island            | Scarlet Fever.   |
| Oct.  | 10-12    | 2 High River            | . Smallpox.  |
| Nov.  | 3-4      | High River              | .  Smallpox.   |
|       | 5-7      | Lethbridge              | . Diphtheria.  |
|       | 7–8      | High River              | . Smallpox.  |
|       | 18       | Coronation School Dist. | Diphtheria.  |
| Dec.  | 12-13    | Lumber Camps            | . ISMIRIDOX.   |

Edmonton, December 31, 1911.

To Dr. L. E. W. IRVING, Provincial Medical Officer of Health.

I beg herewith to tender my report for the nine months of the present year. since assuming my duties.

Infectious diseases were more or less prevalent throughout the year.

Measles became quite widespread among the Galicians in the district lying north of Lamont, due to non-reporting and general ignorance of the laws of this province, but once we were apprised of it active measures soon stamped it out.

Smallpox in the south has given considerable anxiety, but here again stringent measures have had the desired effect, and the disease kept from becoming alarmingly epidemic. I might state that smallpox, according to United States reports, is extremely prevalent there, especially in some of the northern states, and there is no question in my mind, after personal enquiry and investigation, that the great source of the spread of this disease, in this province, is due in a large measure to importation from the United States, such for instance is the history of the outbreak

at Cardston and other southern districts.

Quite a little outbreak of that not common disease, Anterior Polic Myelitis, made its appearance at Red Deer, but the establishment of proper measures and the activity of the local board stamped out the disease; several cases resulted fatally however. There was also a limited epidemic at Cardston, and sporadic cases

elsewhere.

Scarlet Fever, as might be expected, gave us some trouble in the earlier season,

as has also Diphtheria, which of late seems to be well in check.

Typhoid Fever has given its usual autumnal troubles, but outside of a few places this disease seems to have been less in evidence in epidemic form than usual, its distribution being pretty general.

The following are the places visited by me during the nine months in connection with infectious diseases and other matters:

# Smallpox.

| Mannville. High River. Magrath. | June 13 and 14. June 27. June 28. July 26. July 28 and 29. July 30. September 2 and 3. September 8. September 10. October 17, 18 and 19. October 20. October 21, 22, 23 and 31. Tov. 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13. November 14. November 15. November 17, 18, 19 and 20. November 21 and 22. |
|---------------------------------|---|
| Kitscoty                        | November 15. November 17, 18, 19 and 20. November 21 and 22. November 29. December 5 and 6. December 7 and 8. December 9 and 10.  |

# Scarlet Fener

| Blackfalds     |                 |
|----------------|-----------------|
| Bow Island     |                 |
| Calder         |                 |
| Leduc District |                 |
| Bow Island     |                 |
| Leduc District |                 |
| Elk Point      |                 |
| Stony Creek    | June 18 and 19. |
|                |                 |

| Bow Island June 28.       |
|---------------------------|
|                           |
| Stony CreekJuly 15 and 16 |
| MillettJuly 21 and 22     |
| Bow IslandJuly 27.        |
| Millet August 1.          |
| ArdrossanAugust 2 and 4   |
| BelmontAugust 7.          |
| Lamont                    |

Carbon......April 3.

# Diph theria.

| IrvineApril 18 and 19.        |
|-------------------------------|
| Airdrie                       |
| Athabasca LandingJune 19.     |
| CarstairsJuly 25.             |
| IrvineJuly 28.                |
| Mundare                       |
| Lethbridge September 7        |
| Chipman October 7, 13 and 27. |
| Lethbridge October 30.        |
| Coronation                    |
|                               |

# Measles.

| Pakan District               | May 13, 14 and 15.               |
|------------------------------|----------------------------------|
| Smoky Lake                   | June 15 and 16.                  |
| Skaro District               | August 24, 30 and 31.            |
| Myrtle Creek                 | September 16, 17, 18, 19 and 20. |
| Leduc                        | September 23.                    |
| Skaro and Myrtle CreekLeduc. |                                  |
| Leauc                        | October 9.                       |

# Typhoid Fever.

| Bowell    |                     |
|-----------|---------------------|
| Leduc     |                     |
|           | September 28 and 29 |
| Leduc     |                     |
| Carlstadt | October 29.         |

# Anterior Polio Myelitis (Infantile Paralysis).

| Red Deer      |                  |
|---------------|------------------|
| Red Deer      | October 3 and 4. |
| Pincher Creek | October 24.      |

# Sanitation.

| Viking        |              |
|---------------|--------------|
| Lamont        |              |
| Acme          |              |
|               | June 8 and 9 |
| Bow Island    |              |
| Mountain View |              |
| Bellevue      | July 12.     |

# Destitutes.

| Mrs. Maddens | Edmonton  | District | May 2.  |
|--------------|-----------|----------|---------|
| James Porter | Edmonton  | District | June 5. |
| Fred Green   | Tranzilla |          | June 20 |

# Slaughter Houses and Piggeries.

| Copp's Piggery           | .East of Edmonton | . May 2.    |
|--------------------------|-------------------|-------------|
| Puffer's Slaughter House | .Lacombe          | . July 31.  |
| Rosslyn Piggery          | $\cdot$ Edmonton  | . Sept. 15. |
| Western Meat Company     | .Calgary          | . Sept. 27. |
| Slaughter House          | .Calgary          | .Sept. 27.  |

# Hospitals Visited.

| Pakan                   | . May 13. |
|-------------------------|-----------|
| Edmonton, Isolation     |           |
| Holy Cross, Calgary     | . May 23. |
| General, Calgary        | . May 24. |
| Salvation Army, Calgary | . May 24. |
| Trochu                  | June 7.   |
| Athabasea Landing       | .June 19. |

# T. J. Norman, M.D., Provincial Medical Inspector of Health.

# II. HOSPITALS.

From January 1, 1911, the grant to the hospitals has been 35 cents for each patient, instead of 50 cents for non-paying patients and 25 cents for paying patients. On the whole this arrangement has been more satisfactory from the standpoint of the hospital management, and has greatly simplified the work of inspection.

agement, and has greatly simplified the work of inspection.

The following is a list of those hospitals that are in receipt of public aid, those marked with an asterisk are newly opened hospitals

and have this year received the grant for the first time:

| HOSPITALS              | LOCATION   | NO. OF<br>PATIENTS | NO. OF<br>DAYS'<br>TREATM'T |
|------------------------|------------|--------------------|-----------------------------|
| Macleod General        |            | 230                | 2,921                       |
| Medicine Hat General   |            | 901                | 15,917                      |
| Pincher Creek Memorial |            | 255                | 2,876                       |
| Red Deer Memorial      |            | 327                | 2,818                       |
| Edmonton City          |            | 846                | 16,332                      |
| Galt General.          |            | 972                | 19,807                      |
| Holy Cross             |            | 2,321              | 32,067                      |
| General Hospital       |            | 116                | 2,147                       |
| General Hospital       | Edmonton   | 1,589              | 27,564                      |
| General Calgary        | Calgary    | 2,956              | 44,483                      |
| Misericordia           | Edmonton   | [-1,156]           | 21,420                      |
| R. M. Boswell Hospital |            | 178                | 3,924                       |
| General Public         |            | 242                | 3,522                       |
| Salvation Army         |            |                    | 7,392                       |
| Isolation Hospital     |            |                    | 6,046                       |
| Geo. MacDougall        |            | 266                | 1,281                       |
| Scandinavian Hospital  |            | 193                | 2,328                       |
| Public Hospital        |            | 405                | 4,535                       |
| Providence General     |            |                    | 4,619                       |
| Municipal Hospital     |            |                    | 2,144                       |
| Isolation Hospital     |            |                    | 6,584                       |
| *St. Joseph's          |            |                    | 1,416                       |
| *High River General    | High River | 315                | 2,155                       |
| *St. Mary's            | Trochu     | $^{1}$ $^{2}$      | 544                         |

# III.—CHARITY AND RELIEF.

To date there has been expended \$5,152.18 in the relief of cases of poverty and destitution. Applications for such relief (totalling 144) have been received from the following places:

| Alsask, Sask.<br>Medicine Hat (3).<br>St. Albert.<br>Minda (3).<br>Endiang. | Cardiff.<br>Chipman.<br>Cadogan.<br>Pincher Creek.<br>Prague. |  | Stettler. Manfred. Trochu. Trenville Bentley. |
|---|---|--|---|
|---|---|--|---|

Tofield. Calgary (3). Naughton Glen. Taber (2). Wabamun (4). Edmonton (26). Garden Plains. Picardville. Noyes Crossing. Duvernay (2). Prairie Creek. Edison. Wetaskiwin (3). Irvine. Midnapore. New Dayton. Sacred Heart. Markerville. Provost'(2). Bow Island (2). Calmar. Kinsella.

Cowley. Lac La Biche. Coleman. Bentley. Carbon. Junkins (2). Leduc (2). Castor. Lamberton. Ponoka. Berry Creek. Vallejo. Daysland (2). Edson (2). Livingstone. Carbon. Fort Trail. Gleichen (2). Fisher Home. G.T.P. Camp.

Magrath. Vegreville (20). Crowfoot. Blairmore. High River. Coutts. Lacombe. Bruce. Strathcona. Smoky Lake. Paradise Valley. Lac St. Anne. Pakan (3). Tofield (2). Fishburn. Carlstadt (2). Viking. Wahstao. Lethbridge (2). Millet. Macleod (3).

#### IV .--- INCURABLES.

The Home for Incurables at Medicine Hat has admitted five incurable (destitute) patients during the year 1911, and there are now ten inmates who remain in that institution at the expense of the government.

L. E. W. IRVING, M.D.,

Provincial Medical Officer of Health.

# 10.—REPORT OF THE PROVINCIAL SANITARY ENGINEER.

SIR.—I have the honour to submit the following report on the

work of the branch for the year 1911.

During the year plans and specifications were submitted to and examined by the writer, and the Provincial Board of Health advised to issue certificates to the following cities, towns, etc., in connection with their various works which are as follows:

#### WATERWORKS.

New works—Camrose, Olds, Cardston, High River and Carmangay.

Extension of existing works—Red Deer, Macleod, Calgary,

Claresholm, Canmore Coal Co., Ltd.

# SEWERAGE.

New works—Camrose, High River and Ponoka. Extension of existing works—Red Deer, Medicine Hat, Macleod and Calgary.

# SEWAGE DISPOSAL.

New works—Gleichen, Camrose, Wetaskiwin and Lethbridge. New site—Calgary.

The following reports and extracts from reports of the various engineers representing the cities and towns of the province show the progress which is being made in the installation of waterworks, sewerage works, etc.

# EDMONTON.

The waterworks department has, during the year, had considerable trouble with the system, owing to a number of breakdowns at the pumping station. These are now being overcome by the installation of a new turbine pump directly connected to a steam engine.

We have also had considerable trouble with the filter system, which will also be eliminated this spring by the installation of four additional units of five hundred gallons capacity each, and also a guarantee from the manufacturing company to place the whole plant in proper condition and operate same to the satisfaction of the city.

To show the comparative growth of the water system of this city since 1903 I am giving below a statement showing the increase in revenue, number of services and hydrants during these years.

Comparative Statement Showing Growth of Waterworks Department from 1903 to 1911.

| YEAR             | REVENUE     | NO. OF<br>SERVICES | HYDRANTS |
|------------------|-------------|--------------------|----------|
| 1903 (6 months)  | \$ 2,116.32 | 103                | 50       |
| 1904             | 13,145.96   | 223                | 60       |
| 1905             | 23,414.53   | 405                | 101      |
| 1906             | 37,498.19   | 857                | 102      |
| 1907             | 55,444.16   | 1,925              | 160      |
| 1908 (11 months) | 49,633.67   | 2,520              | 200      |
| 1909             | 59,734.96   | 3,125              | 242      |
| 1910             | 76,167.96   | 3,824              | 258      |
| 1911             | 117,768.89  | 4,736              | 287      |

With reference to the septic tanks owned and operated by the city, I will say that the present tanks have been operated during the year by this department and have given according to our man in charge, satisfaction. The effluent from the tanks has been fairly clear and free from solid matter.

The total mileage of sewers in the city comprises 47,537 miles

of pipe sewer, and 3.2 miles of trunk sewer.

The waterworks department have had installed during the year.

the following mains, valves, hydrants and services:

Distribution.—30,068 feet of mains have been laid during this The total length of mains in use in the city to date is 60.69 year.

Stop Valves.—The number of valves placed in position is 48.

The total number of valves in use in the city to date is 560.

Hydrants.—During the year 29 steamer hydrants were installed. The total number of hydrants in use in the city including private hydrants is 287.

Services.—The number of water services installed during the year is (a) on application, 854; (b) before pavement, 58; total, 912.

The number of sewer services installed during the year is (a) on application, 790; (b) before pavement, 58; total, 848.

Total number of services in city on October 31: Water, 4,736; sewer, 4,411; total, 9,147.

# MEDICINE HAT.

The city of Medicine Hat is situated on the main line of the C.P.R., 660 miles west of Winnipeg. The South Saskatchewan river

flows through the city and is its source of water supply.

Waterworks.—In 1898 this city became incorporated and in 1900 made the first installation of a water supply system, installing a pumping capacity of 1,200,000 gallons per 24 hours. At this time coal was used as fuel. Later with the discovery of natural gas the fuel was changed. In 1906 the city installed a mechanical filtration plant, using alumina sulphate as a coagulant. This plant, until its capacity was exceeded, proved sufficient and gave a good domestic supply. About the same time a 500,000 gallon standpipe was installed on the hill to the south of the city, increasing fire protection, and giving a good domestic pressure in the higher levels. In 1907 the pumping station was again enlarged, two gas units being installed and belted to two centrifical pumps of 750,000 gallons each. The gas engines were four cycle engines of 100 B.H.P. The old steam machinery was retained as auxiliary plant. Last year the city installed a 100-horse-power motor in connection with the centrifical

pump and increased the capacity of the pump 250,000 gallons per day. This was done only as a temporary expedient, as it was realized that in 1912 a larger and more comprehensive plant would have to be installed. With this in view the city obtained a site two miles up the river, upon which it is proposed to instal an entirely new pumping station, and to instal on hills lying to the south of the city a reservoir having a capacity of at least 30,000,000 gallons. At the present time there are some 17½ miles of water mains in the city, and approximately 1 700 water services

and approximately 1,700 water services.

Natural Gas.—In 1902 natural gas was discovered in large quantities under the city. This gas lies in three stratas, the first being 125 feet below the surface, and carries with it a certain amount of moisture. This gas is found at a pressure of about 125 pounds. The second strata is found at 625 feet below the surface, and at a pressure of 260 pounds. This also carries moisture with the gas. The third and valuable strata is found between 1,000 and 1,100 feet from the surface. This gas is at 580 pounds pressure, and carries

no moisture. The analysis of the gas is as follows:

| Methane   |     |  |   | i |   |  |   |   |   |  | · |   |  |  |  |  |  |  |       |   |   | 99.49  |
|-----------|-----|--|---|---|---|--|---|---|---|--|---|---|--|--|--|--|--|--|-------|---|---|--------|
| Hydrogen. |     |  | , |   | ć |  |   | ċ |   |  |   |   |  |  |  |  |  |  | ٠.    |   |   | 51     |
| Oxygen    | ,** |  |   |   |   |  | : |   | ٠ |  |   | v |  |  |  |  |  |  | <br>, | 8 | ì | trace. |

Since the discovery of the gas the field has been found to extend 100 miles east and west and 50 miles north and south, although gas has been found further north. Each 1,000 foot well delivers on an average 3,000,000 cubic feet of gas per day, and the city has six of these now in operation, in addition to which two wells have been drilled and turned over to large manufacturing industries as bonuses. The pressure of the wells is reduced by regulators and the gas is distributed throughout the city and sold at fifteen cents per 1,000 cubic feet, to the domestic consumer, and five cents per 1,000 cubic feet to manufacturers. Approximately 15,000 cubic feet of gas is equivalent to one ton of western coal, and from a manufacturer's standpoint this is equivalent to coal at .75 delivered on the grate bars.

Sewerage.—The city has inaugurated a system of sewerage based upon the separate system principle. Seven miles of domestic sewers and two miles of storm sewers have been constructed. At the present time the sewage flows by gravity into the river, and at high stages it is pumped to the river from the mains by centrifical pumps operated

by gas engines.

Paving and Sidewalks.—To date no permanent pavements have been constructed but the city now has fourteen miles of concrete sidewalks, and about four and a half miles of plank sidewalks and about six miles of macadamized streets. It is the intention during next year, to make a start at paving. A traffic subway is now being

considered under the C.P.R.

Electric Light.—During 1911 an electric light plant was constructed at an expense of \$60,000. This plant consists of two four-cylinder vertical Crossley engines, directly connected to alternators of 125 kilo watts each. Approximately six miles of distribution line has been erected to date and will be materially added to during 1912.

During the past year new buildings to the value of \$780,000 have been erected as compared with \$208,000 constructed during

A municipal store-house has been erected and all supplies will be handled through a purchasing department. All work of an ordinary nature is executed on the day labour basis. The engineer's office consists of two separate branches—the construction department and the engineer's office proper. Under these departments the city has been enabled to save money besides maintaining a very high standard of work completed.

#### RED DEER.

Waterworks.—Red Deer takes its supply of water from the Red Deer river on the up river side of the town. The intake consists of an outer basin in the bed of the river and an intake basin with filter beds on the outer sides so that the water is all filtered before being pumped into the distributing mains. The town has installed two 10 inch by 18 inch by 10 inch by 18 inch compound steam pumps made by the Snow Pumps Co. of Buffalo. These have each a capacity of 1,000,000 gallons per day. They are supplied with steam from three large boilers and are so arranged as to operate either singly or together and from any one of the three boilers. A jet condenser is also used for greater efficiency.

The water mains consist of six inch, eight inch and ten inch pipes, wooden, cast iron and steel. The system consists of about six and one-quarter miles of mains of which two and one-half miles were laid this year. This includes a duplicate main from the power house to the principal distributing point, so that in case of a breakdown of either pump or any of the mains or boilers the system can still be

operated.

The efficiency of the system is shown by the fact that since the first system there has never been a breakdown of any kind during a fire, and in 1911 with sixteen fires the fire loss amounted to only \$2,175. Red Deer enjoys the lowest fire insurance rates of any town in Western Canada.

During 1911 land was secured for a site for a stand pipe which will be erected on the hill to the east of the town, opposite the Pres-

byterian Ladies' College.

Sewers.—The sewer system is built almost entirely of vitrified pipe, though some cement pipe has been used in the smaller sizes. The sizes range from four inches to eighteen inches, the latter size being the main sewer to the outlet. There is about four and a half miles of sewer laid of which about one mile was laid this year.

The outlet is down the river below the town, the town having purchased about two acres of land for disposal works. The construction of these disposal works was commenced this year but on the permit of the Provincial Board of Health the work was left over

until 1912 for completion.

Cement Sidewalks.—About one and three quarters of a mile of these have been laid during the past two years, about one mile being laid this year. The walks are ten and a half feet wide on business and six feet on residential streets and are complete with curbs and gutters, catch basins being laid to the sewers to furnish proper drainage.

Street Grading.—Much grading was done this year on the principal streets. The business streets have been brought to grade and gravelled and properly drained. During the summer these are sprinkled by means of a water cart and the rubbish removed regularly. On 3rd and 4th Streets North-East boulevarding has been done and in 1912 much more of this work will be done.

Parks.—Red Deer owns about eighty acres of parks, some of which have been improved. The Park Superintendent of Calgary was engaged to lay out the principal ones and he is preparing plans for permanent improvements. It is likely that in 1912 the town square will be laid out and children's playground apparatus purchased and erected.

Drinking Fountain.—A sanitary drinking fountain has been erected on the main street and has been largely used during the summer by people, dogs and horses. The approach to this from the street side is built of concrete properly drained to the sewer and the

part used by people has a continuous flowing mouth piece.

The amount spent on waterworks, sewers, parks, etc., to date is over \$200,000.

# LETHBRIDGE.

Waterworks.—The present equipment at the pumping station includes one reciprocating steam pump of 2,000,000 capacity, two

six-inch turbine pumps, and two six-inch fire pumps.

There are two force mains leading to stand pipes, one having a ten inch cast iron, and the other a twelve-inch wooden force main. Stand pipes are each eighty feet high, and located on eminences, and giving pressure in the business part of the town from thirty-five to forty pounds. The total length of water mains is 32.70 miles, including two force mains.

Such analyses of the water as we have been able to get show

a low count of bacteria and an absence of colon bacilli.

Sewerage.—The total length of sewers is 20.8 miles, including three outfalls which converge to a single outlet before discharging into the river. The system has been working well throughout the year, and has given no trouble.

#### STRATHCONA.

Sewers.—Eight inch tile constructed during 1911, 15,380 feet; 10-inch tile, 2,893 feet; 12-inch tile, 1,118 feet; 24-inch tile, 8,000 feet, making a total of 27,391 lineal feet of sewers constructed, or 5.19 miles. There were 869 feet of 8-inch tile, C.B. connections, 48 manholes constructed, 22 catch basins constructed, and 267 6-inch house drains (11,445 feet) laid.

Waterworks.—Six-inch mains constructed during 1911, 15,600 feet; 8-inch mains, 3,490 feet; 12-inch mains, 2,512 feet, making a total of 21,602 lineal feet of water mains constructed, or 4.09 miles. There were 13 hydrants and 68 gate valves set in place, 100 plumbing permits issued, 267 water services (11,404 feet) completed, and 13

6-inch hydrants (390 feet) branches.

Surface Water. - Forty-three box drains 8 inches by 10 inches, and 11 box culverts 2 feet by 2 feet six inches constructed.



HAY-RACKS AND FEED-TROUGHS USED BY STEERS ON WINTER FEED AT DEMONSTRATION FARM, OLDS,



Comparative Statement in Miles of Work Done During the Years 1905-1911.

| YEAR   | SEWERS  | WATER MAINS  |
|--|---|--|
| 1905<br>1906<br>1907<br>1908<br>1909<br>1910<br>1911 | 1.25<br>3.47<br>.58<br>2.55<br>1.95<br>2.84<br>5.19 | 1.12<br>3.36<br>2.65<br>1.82<br>3.14<br>3.03<br>4.09 |
| Totals   | 17.83   | 19.21  |

## MACLEOD.

Macleod has added two miles of six inch cast iron water mains to its system this year, also seven hydrants. The old part of the system is wooden pipe and is giving great trouble through leakage, etc. As far as regards operation, water supply, etc., it is in first class condition.

Three miles have been added to the sewerage system. There is approximately one hundred and ten connections made to this system, also twenty-four catch basins. This system is working perfectly satisfactorily, but no sewage disposal plant has yet been constructed.

The town has also laid a twenty-inch wood pipe line from the old water intake to a point two hundred and seventy feet higher up the Old Man River. This gives a better supply of water to the pumps during low water and removes all danger which may have existed owing to the hospital being in the vicinity of the old water intake.

The town is taking steps to make connections to the sewerage system compulsory.

## CAMROSE.

Waterworks.—The system as designed by the engineers embodied the use of deep wells as the source of water supply. The selection was aided by the fact that artesian water is found at Camrose, one well in particular raising the water fifteen feet above the ground level. A compressed air system of lifting the water was chosen, the water being delivered to an underground reservoir of 150,000 gallons capacity.

The distribution system involved the installation of 24,000 feet of cast iron water mains, the use of nothing smaller than six inch being contampleted.

inch being contemplated.

An elevated steel tank of 100,000 imperial gallons capacity on a steel tower 100 feet above the highest point of the town has been installed. A multi-stage turbine pump, engine driven, is provided to raise the water to the tank, or to be used for fire protection. Hydrants are installed at all the principal corners.

Sewer System and Sanitary Work.—The sewer system as designed comprises the installation of some 18,000 feet of vitrified clay sewer

pipe, eight inch being the smallest size used.

Disposal Tank.—After thorough investigation the engineers decided upon the use of a sedimentation and sterilization method of disposal as designed and patented by R. B. Owens, B.A., B.E., this appearing eminently suitable to the climatic and local conditions

and having the further advantage of being economically constructed and operated. This is located on Stoney Creek, about one mile south

of the town.

Owing to the exceedingly bad weather throughout the season and the scarcity of labour which accompanied the harvest season, it was not found possible to make enough house connections to warrant the operation of the system during the winter. It was, therefore, deemed advisable to suspend the completion of the works until spring.

As the situation now stands the work as designed is practically completed with the exception of the disposal works. The total expense to date being, in round figures, \$80,000, with a balance of \$20,000 still available from the \$100,000 provided by the ratepayers. With good weather, two months' work in the spring will place the system in operation. When completed, Camrose will be supplied with three lines of railroads, electric lights and sewer and water supply—practically everything desired for comfortable living.

#### CALGARY.

Waterworks.—198,976 lineal feet of water mains of various sizes have been laid during the year. This exceeds the amount laid in the preceding year by 100,923 lineal feet. The total length of

mains of various sizes in use in the city is 107.77 miles.

House Services (water connection).—The number of house services laid during the year was 2,596, being an increase of 829 over last year. This department has been exceedingly busy throughout the year; besides the ordinary house service 13 stand pipes, 76 boulevard taps, 11 taps in Victoria Park stables, and 142 connections were changed from lead to iron.

Reservoir.—The reservoir which was partly concreted last year is in first class condition consistent with present requirements, but the bottom and sides being the natural earth should be lined throughout, as a certain amount of seepage is apparent, which can be remedied

by properly lining the whole reservoir.

Pumping Station.—The waterworks department has just installed a five million gallon electric pump supplied by the J. Ingles Co. The pump has not been tested, and therefore not finally accepted. The pumping station has been undergoing some repairs and slight extensions owing to the installation of the new electric pump, and will need to be repainted and thoroughly renovated.

Gravity Intake.—At the gravity intake new and enlarged screens and filters have been put in which has to a great extent kept back the needle ice from getting into the well. The water has only been shut off temporarily for a few hours at a time on several occasions for minor repairs—everything is working very satisfactorily.

Waste of Water.—Unfortunately there seems to be quite a waste of water somewhere in the city, and I should recommend that a certain amount be appropriated so that a thorough examination of all mains and house connections can be made to detect the possible underground leakage, together with a systematic inspection of service supplies, throughout the city.

Sewers.—During the year 33.1 miles of sewer was laid, which is greatly in excess of that laid the previous year, and is owing chiefly to the demand for sewers in the recently added territory. The cost per foot will be slightly higher than in previous years, owing to the

greater depth, increased cost of material, labour, and the haulage which is further away from the yard. The labourers, at certain

periods, were rather difficult to get.

Concrete Trunk Sewer.—Tenders were called for a six foot trunk sewer the early part of the year; about a dozen contractors put in bids ranging from \$14.72 to \$22.00 per lineal foot, the lowest tender being the James Mitchell Construction Cc. Work was commenced about the middle of August, but slow progress has been made. The work was closed down on the 25th November on account of cold weather, except tunnel work under the C.P.R. tracks and under 9th Avenue and 8th Street E

A relief concrete trunk sewer was constructed by day labour from the Elbow River along Ninth Avenue and First Street East, to connect the present sewer on Third Avenue, a total length of 3,572 lineal feet, also a concrete sewer north of the Bow River to drain

the newly added extensions on the north hill.

Catch Basins.—The number of catch basins installed during the year was 304, being 71 in excess of the number put in in 1910. The contractors were the Crown Paving Co., price paid \$15.90 each, being \$1.00 less than last year's price.

House Sewer Connections.—During the year 1,977 sewer connections were made, an excess of 612 connections over the amount last year. This necessitated an increased number of labourers to

keep pace with the number of connections to be made.

Sewer Flushing.—All the principle sewers have been flushed at regular intervals, and in addition to this there are quite a number of automatic flush tanks which flush the sewers several times a day. Owing to the increased number of sewer mains and private connections to look after, it will necessitate a large amount of expense during the coming year which should be provided for out of estimates.

The following table gives a good idea of the comparative increase

of work from year to year under the various headings:

|                    | 1911        | 1910       | 1909     | PREVIOUS<br>TO 1908 | TOTAL       |
|--------------------|-------------|------------|----------|---------------------|-------------|
| Sewers             | 33.1 mil.   | 24.53 mil. | 12 miles | 32 miles            | 101.63 mil. |
| Water mains        | 37.7 "      | 18.57 "    | 134 "    | 38 "                | 107.77 "    |
| Hydrants           | 245         | 223        |          |                     | 560         |
| Water connections  | 2,596       | 1,767      |          |                     |             |
| Standpipes         | 13          |            |          |                     |             |
| Boulevard taps     | 76          |            |          |                     |             |
| Victoria Park taps | 11          |            |          |                     |             |
| Sewer connections  | 1,977       | 1,365      |          |                     |             |
| Curb and Gutter    |             |            |          |                     |             |
| Catch basins       | 304         | 233        |          |                     |             |
| Manholes           | 398         | 285        |          |                     |             |
| Conduit            |             |            |          |                     | 0 05 miles  |
|                    | 239.850 due |            |          |                     | 45 494 "    |

As to condition and operation, everything is satisfactory. The refuse destructors are not as yet complete, so we cannot furnish

information as to their operation.

We have just installed a five million gallon electrically driven pump. This, with the other pumps in place, makes a total pumping capacity of ten million gallons. This is simply an auxiliary to the gravity system and an extra security in case of big fires, etc.

### WETASKIWIN.

Waterworks System, Watermains.—These have given very satisfactory service during the year; have only had to repair one leaky joint on the entire system. They also stood the frost test well as we did not have a frozen main nor service pipe, which, considering the severity of the past winter I consider very fortunate; mains being laid at a depth of seven and one-half feet.

Hydrants.—These are Mathews type equipped with frost cases made by the R. D. Wood Company of Philadelphia and have given

entire satisfaction even during the most severe weather.

Elevated Tank.—This tank, erected by the Ontario Wind Engine and Pump Co., is 112 feet high to the balcony and total height is 140 feet. It has a capacity of 120,000 gallons and the riser and overflow pipes are enclosed in a wood casing with adequate air spaces. Notwithstanding the fact that we had no fire in this tank it withstood the frost of the winter months without showing more than a slight skim of ice upon a few occasions during the most severe weather.

Ground Reservoir.—This reservoir is of reinforced concrete, capacity 212,000 U.S. gallons, having a timber roof with air space of about one foot, then finished with tar and gravel. It gave satisfactory service being entirely frostproof, and requiring no attention except an occasional flushing out; provision for which is made by a

trapped drain to the sewer.

Wells.—There are three of these, respectively 238, 240 and 247 feet deep and they are pumped to the ground reservoir by the Harris Air Lift System, power for which is supplied by an electrically driven air compressor with a rated capacity of 225 cubic feet per thousand. During the months of January, February and a part of March the wells did not supply the usual amount of water, partly due I believe to a lack of power. We expect to have an additional unit installed next

year, which I trust may remedy this trouble.

Sewerage System.—These, as a general rule, have given satisfactory service, although some of the laterals, being laid to quite a flat grade, require frequent flushing. In the case of one or two laterals on the east side of the town, we had great difficulty in keeping them from freezing up altogether, partly owing to their being rather shallow and partly from the fact of there being so few services connected, also the shortage of water at this time not allowing sufficient flushing. We hope to overcome this difficulty as our number of consumers for water increases and also when the streets in question are brought to the proper grade.

Disposal Works.—This plant known as "The Live Earth Bed System," designed by Mr. R. B. Owens, is in course of construction and we had expected to have same working this coming winter, but owing to a delay in procuring the automatic valves and syphons we had to ask for an extension of time until May, 1912, when we

hope to have the plant completed and in running order.

Consultations with reference to many of the works before mentioned were held with officials of the various cities and towns, and with those of the general public who sought information on the different subjects coming under the jurisdiction of the writer.

Respectfully submitted,

R. B. OWENS.

Provincial Sanitary Engineer.

# 11.—REPORT OF THE DIRECTOR OF THE PROVINCIAL LABORATORY.

Sir,—I have the honour to present a report regarding the work of the Provincial Laboratory for the year 1911.

# COMMUNICABLE DISEASES.

The work relating to public health includes examinations of specimens to assist in the diagnosis of pulmonary tuberculosis, diphtheria and typhoid fever. The numbers and results of which are shown in table 1.

TABLE I.

Specimens Examined for Diagnosis of Infectious and Contagious Diseases.

| DISEASE                   | No. of specimens | RESU | ILTS | Special sent No. | from | NUMBER RECEIVED EACH MONTH                                    |                                 |                                  |  |  |  |
|---------------------------|------------------|------|------|------------------|------|---|---------------------------------|----------------------------------|--|--|--|
|                           |                  | Neg. | Pos. | Phy'ns           | P.O. | Typhoid   | Diph.                           | Sputum                           |  |  |  |
| Typhoid<br>Fever          | 190              | 152  | 38   | 133              | 26   | Jan 16<br>Feb 11<br>Mar 11                                    | 87<br>18                        | 24 24 25                         |  |  |  |
| Diphtheria                | 406              | 323  | 83   | 183              | 35   | Mar. 11<br>April 11<br>May. 9<br>June 7<br>July 12<br>Aug. 36 | 39<br>41<br>46<br>1<br>24<br>20 | 27<br>28<br>31<br>26<br>22<br>15 |  |  |  |
| Pulmonary<br>Tuberculosis | 266              | 206  | 60   | 220              | 40   | Sept. 49<br>Oct. 9<br>Nov. 14<br>Dec. 5                       | 15<br>36<br>56<br>25            | 20<br>16<br>19<br>15             |  |  |  |
| Totals                    | 862              | 681  | 181  | 536              | 101  | 190   | 406                             | 266                              |  |  |  |

For the convenience of the physicians who avail themselves of the services of the laboratory, mailing outfits are provided by the latter. These are usually furnished through drug stores, which act as supply stations. The supply of outfits can thus be more readily replenished from the laboratory. Whenever requested, however, physicians are supplied direct. At present outfits are kept at the following addresses:

### LIST OF SUPPLY STATIONS.

| Post Offic | Name.  |
|------------|--|
| Airdrie    | Dr. F. W. Edwards. National Park Drug Co. Dr. D. C. McKenzie. Dr. W. G. Evans. 1. Isolation Hospital. 2. Oliver Bros. (Druggists). 3. Wendell McLean (Druggist). |
|            | 4. Jas. Findlay (Drug Co.).  |

| Camrose           | Dr Lamh   |
|-------------------|---|
| Camrose           | D. M  |
| Carlstadt         | Dr. Mason.                                      |
| Carmangaz         | Dr. Bryans.                                     |
| Constairs         | G. E. Kennedy (Druggist).                       |
| Castor.           | Goo Brown (Druggist)                            |
| Castor            | Geo. Diown (Diaggist).                          |
| Claresholm,       | O. L. Reinecke (Druggist).                      |
| Crossfield        | Dr. A. Spankie.                                 |
| Dld               | J. H. Burrows (Druggist).                       |
| Daysiana          | TI W Chambana (Drummet)                         |
| Didsbury          | H. W. Chambers (Druggist).                      |
| Edberg            | Dr. McLeod.                                     |
| Edmonton          | 1. Edmonton Drug Co.                            |
| Edinonion         | 2. J. M. Sissons.                               |
|                   |   |
|                   | 3. Norwood Pharmacy.                            |
|                   | 4. Health Department.                           |
|                   | 5. Isolation Ĥospital.                          |
| 77 1 0 1 1 1      | Dn D Axion                                      |
| Fort Saskatchewan | Dr. I. Aylen.                                   |
| Frank             | Dr. J. W. McKay.                                |
| Gadsby.           | Dr. H. E. Chatham.                              |
| Gleichen          | Dr Wm Rose                                      |
| Gleichen          | Eddington Deng Co                               |
| Hardisty          | Eddington Drug Co.                              |
| High River        | Dr. Stanley.                                    |
| Innisfail         | Mr. Geary (Druggist).                           |
| Innisfail         | Dr H S Ferguson                                 |
| irvine            | N. J. McDownid (Dwiggiet)                       |
| Lacombe           | N. I. McDermid (Druggist)                       |
| Lamont            | Dr. A. E. Archer.                               |
| Lethbridge        | Dr. L. G. De Veber.                             |
| Lloydminster      | Red Cross Pharmacy                              |
| Laoyaminster      | A C C T-b                                       |
| Lundbreck         | Dr. A. C. C. Johnston.                          |
| Macleod           | R. D. Barnes (Druggist).                        |
| Magrath           | Magrath Pharmacy.                               |
| Medicine Hat      | 1 Dr. O Boyrd                                   |
| medicine nat      | 1. D1. O. D0yd.                                 |
|                   | 2. General Hospital.                            |
| Nanton            | Dr. J. A. Creighton.                            |
| Okotoks           | Dr. J. A. Creighton. 1. F. R. Brown (Druggist). |
| OKOloks           | 2. J. W. Edmonds (Druggist).                    |
|                   | 2. J. W. Edinolius (Diaggist).                  |
| Olds              | 1. Dr. Little.                                  |
|                   | 2. Dr. Stephens.                                |
| Onion Lake        | Dr. Matheson.                                   |
| Pakan             | Dr. C. H. Langford                              |
| Такан,            | Dr. W. A. Campbell                              |
| Ponoka            | Dr. w. A. Campbell.                             |
| Pincher Creek     | E. J. Mitchell (Druggist).                      |
| Prairie Creek     | Dr. Mever.                                      |
| Raymond.          | Dr I H Rivers                                   |
| D 1 D             | D. I Collision                                  |
| Red Deer          | Dr. J. Comson.                                  |
| Shandleigh        | Dr. Reavley.                                    |
| St. Albert        | Laval Drug Co.                                  |
| Stettler          | Dunlon Drug Co                                  |
| Stettier          | D. D. M. Octavov                                |
| Stony Plain       | Dr. K. M. Oatway.                               |
| Strathcona        | F. Cowles (Druggist).                           |
| Taber             | $\dots$ Dr. N. Aikens.                          |
| Tofield           |   |
| TOHERU            | Dra Field and Manlaman                          |
| Vegreville        | Drs. Field and Monkman.                         |
| Vermilion         | F. C. Long (Druggist).                          |
| Viking            | Dr. G. E. Story.                                |
| Vulcan            | Dr Unton  |
| vuican            | D. C. F. Conthorn                               |
| Wabamun           | Dr. C. E. Cartnew.                              |
| Wetaskiwin        | 1. Dr. R. D. Robertson.                         |
|                   | 2. Humphrey Higgs (Druggist).                   |
|                   |   |

# WATER ANALYSIS.

There were received and examined in the laboratory 71 chemical and 31 bacterial samples of water. To make it possible to understand the analytical findings it is in every instance necessary to have a description of the source of the sample, for which purpose I have prepared a blank form. This is sent to every person requesting an analysis. The descriptive blank is at the same time educative in that it directs attention to the essential conditions on which safe water depends. In carrying out an analysis of water it is absolutely

necessary to have a proper sample. Therefore directions and outfits are furnished by the laboratory. As unsuitable samples are frequently sent in, I give below the instructions which should be followed:

# DIRECTIONS FOR TAKING AND SENDING SAMPLES OF WATER.

The Laboratory will make examination of samples of water when the results of such examinations are directly applicable to the prevention of disease and the protection of public health. Satisfactory evidence for regarding the water with suspicion must be forwarded when the examination is to help decide whether the water supply is contaminated.

In order that the examination of water samples may be of value, these must be sent in bottles furnished by the Provincial Laboratory, together with full data as asked for in the accompanying forms, and the directions which follow, concerning the inspection of the source of the water, the method of collecting samples,

and the details of packing them, must be carefully carried out.

The purpose of these directions is to ensure the obtaining of true samples, and failure to follow them will not only give the laboratory much unnecessary trouble, but will likewise make it difficult, and sometimes impossible, properly to interpret and understand the analytical results.

The tests applied to the sample in the laboratory are exceedingly delicate and exact, but can be relied upon only when the sample is taken strictly according

to directions.

Proper data regarding the source of the sample are absolutely necessary to interpret or understand the laboratory examination, and the questions must therefore be answered accurately and fully in so far as they apply to the source of the sample you are sending.

The report on the examination will be the conclusion based upon a consideration

of all ascertained facts, and its value will depend on the accuracy and completeness of the statements in answer to the questions concerning the conditions existing about the water supply.

If several samples are sent, give identification of each and state whether from the same vicinity or same source. State reasons for selection of each sample, and give full information for each, according to directions.

## GENERAL DIRECTIONS FOR COLLECTING SAMPLES OF WATER.

The bottles have been rendered chemically and bacterially clean, therefore carefully avoid any contamination in handling or filling them. Especially avoid allowing the fingers or anything else to touch the part of the stopper that enters the neck of the bottle. Do not remove or expose the stopper before all is in readiness for filling the bottle. Do not use sealing wax or other sealing substance. Use a piece of heavy cotton to cover and fasten down the stoppers and protect the mouths of the bottles.

If the sample is taken from a tap first let the water run freely for ten minutes;

if taken from a pump, pump out several pails just before taking the sample.

If the sample is taken from a body of water, plunge the bottle rapidly below the surface to avoid the surface water, get it completely full and withdraw quickly. Direct the mouth of the bottle up stream, if there is any current, or move it forward in a straight line if in still water. This is to avoid contamination from the hands or outside of the bottle.

If the sample is taken from a shallow source, avoid disturbing the sediment

at the edges or bottom.

Avoid taking the sample too near the edge, surface or bottom. The sample should be as nearly as possible like the bulk of the water it is to represent.

The utmost care must be taken that the fingers do not touch the lower part

of the stopper nor the inside of the neck of the bottle. When possible the sample should be taken directly in the bottle without the use of dipper or funnel. When these are necessary, see that they are absolutely clean, and, before use, are first well rinsed in water from the source to be sampled. Thoroughly rinse out the bottle by filling it one-third full, shaking it and then emptying it. Do this three times.

Then fill the bottle finally, pour out a little water to leave room for expansion, and cover the stopper and neck of bottle with the cotton securely tied on. The

ends of this string may then be sealed.

Ship as soon as possible, by express prepaid, to the Provincial Laboratory,

Department of Agriculture, Strathcona, Alberta.

The time of taking samples should be chosen so as to avoid waiting long before shipping. Avoid sending samples to arrive in Strathcona Saturday or Sunday.

There is unfortunately much popular misconception as what should be done in the case of bad or suspicious water. Analyses are usually asked either because of suspicion of the water having caused typhoid fever or beacuse of objectionable taste or physiological effects of the water. Inspection is a much quicker and usually more certain method than analysis, to ascertain whether the water-source is objectionable or not. If there is just cause to suspect that a well or other source of water is contaminated the water should be avoided or sterilized. Sterilization is easily accomplished either by boiling or, often more conveniently and extensively, by the use of "bleaching powder." The method of using this is as follows:

### A SIMPLE METHOD OF WATER PURIFICATION.

A level teaspoonful of chloride of lime (Hypochlorite of Calcium or "bleaching powder") should be rubbed up in a teacupful of water. One-fourth of this cupful should then be diluted by pouring it into three-fourths of a cupful of water, or the whole cupful may be mixed with three cupfuls of plain water. A teaspoonful of this diluted solution added to two gallons of drinking water will sterilize it (kill all bacteria) in ten minutes, thus destroying all typhoid and other disease-producing germs that may be in the water. It is therefore quite unnecessary to boil the water. All trace and taste of the chemical will quickly disappear from the water. This method of sterilization of water is very useful to miners, campers, prospectors, travellers, and to all who use private wells that are not above suspicion. The bleaching powder is cheap and can be easily carried on journeys. The method is not suitable for sterilization of milk.

#### SEWAGE DISPOSAL.

The great growth in size and number of our cities, towns and villages makes it imperative to have efficient ways of disposal of the sewage from such communities. When these are situated on a river it is the custom to empty the sewage into the latter. This indeed is unavoidable and is very liable to pollute the river and spoil its water for use by other persons or places down stream. Therefore the sewage must be so treated as to make this practice safe, and there are various methods by which this is attempted. Among the most promising of these is one devised by the sanitary engineer of the province. Theoretically and so far as can be judged by appearances at the few small plants installed this system is highly efficient and should be especially welcome to large centres of population owing to the low cost of installation, ease of operation and the readiness with which it may be extended. As yet no investigation in this province has been possible to learn the chemical and bacterial changes which are involved in the process. This work it is hoped may be undertaken at an early date so that we may be in a position to state more exactly the results obtainable.

## MILK.

Too much attention is commonly given to the so-called "richness" of milk, that is, the content of butter-fat or cream, to the

neglect of its purity.

The laboratory examination of milk when carried out on proper samples is of great value in determining the quality of the milk. For bacterial examination the samples must be as nearly as possible representative of the milk as delivered or consumed. The use of preservatives, skimming, watering or other adulteration can be investigated in samples sent by mail or express. Where possible samples should be packed in ice and full information should precede

or accompany the samples. Not infrequently no information is forthcoming at all, not even the name and address of the sender. In 1911 nineteen milk samples have been examined and reported on.

A serious outbreak of typhoid fever occurred in Lethbridge which reached its height in October. At the request of the Medical Health Officer of that city I investigated the outbreak. The investigation showed that the infection was due chiefly to the use of milk supplied by one dairy. A large majority (about 67 per cent.) of the cases in this epidemic were using milk from this dairy which was furnishing only 15 per cent. of the whole milk supply of the city. The dairy was promptly closed and should not be allowed to resume before it can produce milk that is safe to use.

## MEDICO-LEGAL.

A very considerable part of the work of the laboratory relates to the administration of justice by the department of the Attorney-General. In this connection during the current year I have attended several inquests and trials for murder, manslaughter, poisoning, etc. In the preparation to give evidence and also to assist the police, examinations are frequently made in the laboratory. During the year there have been thus far 46 such examinations. The year has shown a large increase in the amount of this work and it will doubtless continue to expand even more rapidly than the population of the province. The importance of this part of our work I regard as almost equal to that relating to prevention of disease. The detection and punishment of crime is necessary for the protection of property, liberty and lives of our citizens. The greater certainty and promptness with which crime is detected the less will be the tendency to lawbreaking. Thus there is the opportunity to prevent crime and, as in disease prevention is better than cure so here, also, it is better than punishment and neither cure nor punishment can undo the mischief wrought.

Analysis of liquors for the liquor license branch of the Department of the Attorney-General was made in forty-six instances to ascertain the percentage of alcohol or the presence of wood-spirits or drugs. In some of these cases it was necessary to attend court and to give

evidence on the findings.

## DISEASES OF ANIMALS.

Two examinations for the diagnosis of glanders in horses and four for rabies in dogs were made. All were negative. Continued vigilance should be had to prevent rabies getting a foothold in the province. The disease is conveyed almost exclusively by the dog bites. Any dog that has bitten a person should be securely shut up and well cared for for a week. If he is then well no fear need be felt for the person bitten. It is a serious mistake to destroy a dog that has bitten anyone before first proving that the animal is free from hydrophobia.

#### MISCELLANEOUS.

In April on the request of the Dairy Commissioner of the province I attended at the dairy school held at Innisfail and gave lectures and demonstrations in bacteriology.

In May the laboratory quarters were transferred to the new University Building. Here larger and more suitable space and the availability of gas for the laboratory purposes afford much better

facilities for the work.

In June I attended the meeting of the Dominion Medical Association in Montreal. An invitation was extended to the association to hold its next meeting in Alberta. This invitation was accepted and August 10 to 14, 1912, has been set for the convention to be held in Edmonton. The province as a whole will benefit very materially and permanently from this gathering of medical men from all parts of Canada and from other countries.

D. G. REVELL,

Director.

## 12.—REPORT OF THE PUBLICITY BUREAU.

Sir,—I beg to submit herewith a report of the work performed

by this bureau during the year.

The past year has been distinguished by increasing activity in the immigration field. The Canadian Pacific Railway Company report that they alone received 175,000 immigrants from the United Kingdom, that during the month of May 30,000 immigrants were received (about 1,000 per day) and fully 75 per cent. of these newcomers came through to Western Canada. It required 500 special

trains to bring these settlers westward.

It is fully expected that not less than 100,000 settlers came to Western Canada this year from the United States, and with them not less than \$1,000,000. The Dominion Government will expend not less than \$1,500,000, and the several provincial governments \$500,000, in carrying out publicity campaigns. This will be supplemented by an even larger sum by the three Canadian transcontinental railway companies; and by the \$250,000 odd which individual towns and cities will add to the fund, the total amount for the year will thus be about \$3,250,000.

Having established offices at Montreal, Toronto, and Winnipeg last year, we were able to successfully meet and influence a very large number of the incoming immigrants to settle in Alberta this year.

The work of the commissioners at their above named centers was supplemented by special commissioners who succeeded in sending us a large number of first class settlers from the United States. The bureau also placed large display exbibits at the following exhibitions during the current year, viz.: The Dominion Exhibition at Regina, Saskatchewan, The Industrial Exhibition at Toronto, Ontario, and the Dry-Farming Congress at Colorado Springs, Colorado. We were successful in securing gold medals at the two former exhibitions and the grand sweepstakes prize, together with some twenty odd individual first prizes at the Dry-Farming Congress exhibition, and with the assistance of the Lethbridge Board of Trade secured the next meeting of this congress at Lethbridge next year.

Our phenomenal success at this great exhibition should be a matter of pride for every citizen, as also it was the best advertising

ever accomplished by any province.

As the direct result of the operations of this bureau, ten special excursion trains were organized and run from different points into the province during the months of April and May, carrying not less than 2,500 actual settlers. This great influx of settlers blocked the hotel accommodation at both Calgary and Edmonton to such an extent that the daily press on April 10 stated "that not a hotel in the city could furnish accommodation and the situation threatens to become serious, and there is not a vacant building in the city in which to quarter immigrants. Not a room, nor a dwelling, not a shack of any nature is vacant, and the crowds of new-comers will face the necessity of sleeping with only the stars for a canopy, if the city authorities do not provide accommodation of some nature."

#### LAND OFFICES CROWDED.

April record in homesteads was 50 per cent. over all others. Nearly 1,000 entries were made in the Edmonton land office alone during the month of April. Every entry was made by some new settler, a recent arrival in the province. Many of these settlers brought families with them and went directly upon the land.

We had the distinguished honour of arranging for the first Grand Trunk passenger train departing from Ontario to run direct through to Alberta via Chicago, St. Paul and Winnipeg. This special settlers' excursion train was accompanied by our Toronto commissioner, and brought not less than 200 settlers into our province

#### MONTREAL.

The bureau's work at this point has been very successful and satisfactory during the year. It has been distinguished by the large number of European immigrants directed to our province through its activity, securing in some cases not less than 125 passengers from one steamer.

The commissioner has been very active in meeting incoming immigrant trains, distributing literature and presenting our claims to the new arrivals. His office has a record of having received 2,260 letters of enquiry and sending out 3,120 letters. Five special excursion trains and eleven special parties were organized and sent forward from this office during the present year, and a large number of smaller parties from time to time.

#### TORONTO.

Three special excursion trains, and nine special parties containing from twenty to fifty settlers each, were organized and dispatched by our commissioner from Toronto this year. These, together with smaller parties from time to time were the direct result of the activities of this office. 1,270 letters of enquiry were received and 1,742 letters were sent forward from this point. Our efforts in Ontario have yielded very encouraging results and we feel justified in predicting a still larger immigration from that province next year than ever before.

### WINNIPEG.

Our office at Winnipeg has experienced a very busy year. The personal applications for information in regard to the province became so numerous during the early part of the year that we found it necessary to provide our commissioner with extra assistance, and also again during the early harvest season when we were called upon to furnish nearly 8,000 extra harvest hands for different localities throughout our province. We find that hundreds of settlers stop at Winnipeg before deciding their destination, which provides a splendid field for the operations, and personal work of our commissioner, who has shown himself to be the right man in the right place, as scarcely a day passes without affording us direct evidence of his successful efforts in directing settlers into Alberta. 3,211 letters of enquiry were received and 3,863 letters were dispatched from this office during the current year.

## SPECIAL COMMISSIONER, MICHIGAN.

Our special commissioner operating in Michigan succeeded in sending up a special train of first class settlers early in May consisting of 83 adults and their families. Several smaller parties followed later. A large immigration from Michigan may be expected early next year as the result of the practical and official labours of our commissioner in this State.

#### MINNESOTA.

A special commissioner spent some three months in this State early in the year and succeeded in sending us three special parties of from ten to twenty settlers each. A great many inquiries have also been received as a result of our work in this state, and we believe a large number of first class settlers may be expected to come to us early next year from this locality.

#### MONTANA.

Special efforts were made in this state during the months of April, May, and June, and a large number of settlers were secured. About fifty settlers left Great Falls for Alberta points, and a great number of smaller parties from time to time since, and the bureau has the assurance that a still greater number will follow early next year.

#### MISCELLANEOUS.

Our special commissioners were all discontinued after June 1. It is indeed a pleasure to record that we have received many letters from various boards of trade and publicity organizations throughout the province, acknowledging the services of our commissioners in distributing their literature and otherwise rendering valuable and meritorious service.

We have prepared and printed over fifty thousand books, maps, and pamphlets, and distributed in all about seven tons of advertising literature; received 5,366 letters and sent out 6,790 letters. We met and entertained a large number of foreign newspaper and magazine publishers and writers during the past year, notably among which were a large special party from the Old Country, representing most of the more important journals in England, Ireland and Scotland, who toured the western provinces with a special car. These gentlemen were met at our boundary line by our Deputy Minister and a special representation from this bureau who successfully presented the claims of Alberta for the benefit of their respective journals.

We are pleased to report that during the past year a large number of active boards of trade and publicity bureaus were organized throughout the province, many of which have exceeded our vote in expenditure, and are already planning for a still larger campaign next year. I think it is only justice to this bureau to state that many of these organizations are the indirect product of our own activity.

Prior to the organization of this branch, there were very few, if any, publicity bureaus in Alberta, while today there is hardly a town or

village without a first class active organization.

I beg to acknowledge the assistance and co-operation of the various boards of trade and publicity organizations, and also the press of the province; all have united and rendered loyal and efficient service.

I have the honour to remain,

Your obedient servant,

Chas. S. Hotchkiss. Chief Publicity Commissioner.

# 13. -REPORT OF THE SUPERINTENDENT OF DEMON-STRATION FARMS.

SIR,—Operations in connection with the demonstration farms of the province commenced early in May of this year. Seven farms were purchased, two of them being sections, two three-quarter sections and three half-sections. Most of the land was prairie sod so that the year has been occupied largely in breaking, fencing and erecting buildings. The following is a detailed account of the work done on the various farms:

#### MEDICINE HAT FARM

This farm consists of 640 acres lying about two and a-half miles west of Medicine Hat. One hundred acres had been broken two years previously but had not been cropped. This land was brought into a good state of cultivation and the following crops were sown: Oats. flax, rye, alfalfa, potatoes, turnips, mangels, and corn MAII these crops did well, the season being a favourable one for the district. The oats when harvested ran about 80 bushels to the acre. During the summer about 200 acres were broken and cultivated, 125 of which were sown to fall wheat. This crop went into the winter in splendid condition. The farm is fenced with a ten-strand 54 inch woven wire fence and split cedar posts.

Building operations commenced about the first week in May. The buildings being completed sometime early in July. The following is a list of the buildings erected with their dimensions:

> Manager's house, 30 feet by 30 feet. House for men, 18 feet by 26 feet. Cow barn, 38 feet by 54 feet. Horse barn, 42 feet by 44 feet. Implement house, 16 feet by 48 feet. Sheep pen, 24 feet by 30 feet.

The following is a list of the stock purchased:

16 Jersey females. 3 Berkshire sows.

8 head of working horses (geldings and mares).

1 team of colts (geldings).

2 foals.

1 driving horse.

The heavy horses are grade Clydesdales. The Jersey cows are doing exceptionally well. They are a large, strong, rugged type of Jersey and should be well adapted for this country.

#### CLARESHOLM FARM.

The Claresholm farm is located immediately south of the town and contains 320 acres. When purchased it was entirely prairie land. Breaking operations were commenced about the middle of May, 280 acres have been broken and cultivated, 100 of which has been sown to fall wheat, the remainder being put in shape for spring crop. The work of building commenced about the first of July and was completed about the first of September.

The following is a list of the buildings erected with their dimen-

sions:

Manager's house, 30 feet by 30 feet. House for men, 20 feet by 26 feet. Horse barn, 42 feet by 44 feet. Cow barn, 36 feet by 72 feet. Implement house, 18 feet by 48 feet.

Two teams of brood mares and one foal, also one driving horse were purchased early in the season; this heavy four-horse team did most of the cultivation work on the land.

#### OLDS FARM.

The Olds farm consists of 320 acres situated immediately east of the town. When purchased it was entirely covered with heavy brush. This brush was cleared away and about 130 acres broken and put in shape for spring crop. The farm was fenced with a tenstrand 54 inch woven wire fence. Building operations commenced about the 1st of August and were completed early in November. Practically the same buildings as outlined at Claresholm were erected and in addition a sheep pen 20 feet by 30 feet and hog pen 16 feet by 52 feet.

The following stock were purchased:

7 heavy horses (mares and geldings). 1 driver. 100 head of steers.

The steers were purchased with two objects in view: first, to produce revenue and secondly, to give steady employment to men who will be required for spring work and who would be difficult to replace were they discharged in the fall.

A three-quarter section crop was bought standing and harvested by the help on the farm. This crop is being fed to the steers at the present time. On the first of September Mr. Jas. Clements was appointed manager and assumed his duties on November 1st.

## SEDGEWICK FARM.

At Sedgewick the Canadian Pacific Railway presented the department with a half section of land to be used as a demonstration farm. This land is located two miles from the station, and as it was thought that this location would prove inconvenient for carrying on educational work in the future, another half section was bought adjacent to the town. This land is located on the east side of the town between the farm presented by the Canadian Pacific Railway and the townsite. One quarter section on the east half of the farm was broken during the summer and brought under cultivation. Further than this no work has been done.



CATTLE BARN, DEMONSTRATION FARM, OLDS.



#### VERMILION FARM.

The farm at Vermilion consists of 320 acres and is located to the south-west of the town about half a mile from the station. In the neighbourhood of 200 acres of this farm is already under cultivation. At the time of purchase the crop on one of the quarter sections was reserved by the vendor. The crop on the other quarter section was partly sown when purchased. The department finished the seeding and harvested the crop which consisted of oats and wheat. Most of this crop was rather badly frozen so that no threshing was done. It is being fed in the sheaf to steers, seventy of which were purchased about the first of November.

Building operations were commenced about the first of October and were completed during the latter part of November. Practically the same set of buildings as outlined at Claresholm were erected.

Three mares of Percheron breeding have been secured, the mares

to be used for breeding purposes and also to work on the farm.

Mr. H. W. Scott has been appointed manager.

No work of any importance has been done on the Stony Plain

and Athabasca Landing farms.

Practically no revenue has been produced from any of the farms as yet on account of most of the land being prairie sod when purchased so that the first year necessarily has been one of preparation.

All of which is respectfully submitted.

H. A. Craig,
Superintendent of Demonstration Farms

## 14 — APPENDICES.

## APPENDIX A.

# ALBERTA HORSE BREEDERS' ASSOCIATION.

## THIRTEENTH ANNUAL REPORT.

HON. DUNCAN MARSHALL, Minister of Agriculture.

SIR,-I have the honour to submit herewith the thirteenth annual report of the Alberta Horse Breeders' Association for the year 1911.

The annual meeting was held in the new horse show building

at Calgary, April 8, at 8 p.m., 1912.

#### MINUTES OF THE ANNUAL MEETING.

The president, Mr. Geo. Lane, in the chair.

The president addressed the meeting in connection with the horse industry generally and quoted the following interesting figures regarding the value of importations of horses coming into Western Canada.

Horses brought from Eastern Canada and the United States to Manitoba, Saskatchewan and Alberta (passing through Winnipeg).

| YEAR. | No. of Horses. |                 | Total value at average of \$275.00 per head. |
|-------|----------------|-----------------|--|
|       |                |                 | 5,428,775<br>9,232,025                       |
| 1910  |                | 33,571 $26,072$ | 7,169,800                                    |

This does not include horses which come in from the United States duty free as settlers' effects.

The following purebreds were imported into Alberta, Manitoba and Sask-

| atenewan:  |   |  |
|--|---|--|
| ALBERTA  | MANITOBA  | SASKATCHEWAN   |
| Ponies.       22         Shires.       30         Suffolks.       18           | Ponies       5         Shires       5         Suffolks       18         French Coach       2                                  | Ponies   |
| Hackneys   | Hackneys  | Hackneys 4 Belgian 18  |
| Thoroughbreds. 9 Standardbreds. 22 Percherons. 129 Clydesdales. 158 Hunters. 4 | Thoroughbreds         7           Standardbreds         33           Percherons         157           Clydesdales         121 | Thoroughbreds         1           Standardbreds         18           Percherons         81           Clydesdales         136           Oldenburg         1 |
| ZZGZZOZOZOZOZOZOZOZOZOZOZOZOZOZOZOZOZOZ  |   | Saddle 2   |
| 400  | 368   | 279  |
| 469  | 909   | 219  |

The president then called upon the secretary to read the annual report and

financial statement.

Moved by Mr. Turner, seconded by Mr. I. G. Ruttle,—

That the annual report and financial statement be adopted as read. Carried.

The second of the The Hon. Duncan Marshall, Minister of Agriculture, was then asked to address the meeting. He congratulated the directors and members of the Horse Breeders' Association and the citizens of Calgary on the splendid new building which had been provided by the city for the accommodation of the spring shows. Such a building would be a valuable aid in making future shows a greater success than ever, and would undoubtedly reap for the citizens many times its value in connection with the various shows to be held in it. He congratulated the association on the success of the past shows, and stated that everything pointed to the show to be opened on the following day being the best in its history.

Before closing he mentioned that be believed the time had come when more stringent stallion legislation should be put in force in the province. He would be glad at all times to have any reasonable suggestions from the Alberta Horse Breeders' Association towards the encouragement and improvement of the horse breeding

interests of the province.

Moved by Mr. J. C. Drewry, seconded by Mr. Fred Johnston,— That Mr. George Lane and Mr. John A. Turner be a committee to act with similar committees of other live stock associations to endeavour to form better brand regulations. Carried.

Moved by Mr. Drewry, seconded by Mr. C. Riddock,-

That the directors be requested to give special encouragement in the prize list to horses bred in Alberta. Carried.

Moved by John A. Turner, seconded by Mr. I. G. Ruttle,— That this meeting express to the citizens of Calgary, through His Worship the Mayor, a hearty vote of thanks for providing such an excellent building for the accommodation of the spring horse show. Carried.

#### ELECTION OF OFFICERS.

Moved by Mr. Ruttle, seconded by Mr. Von Strallendrof,— That the election of officers be now proceeded with. Carried.

In nominating a president, Mr. Geo. Lane was nominated by Mr. Drewry, and Mr. Geo. Hoadley was nominated by Mr. de la Vergne.

Moved by Dr. Hargrave, seconded by Mr. Turner,-

That nominations close. Carried.

Moved by Col. Walker, seconded by Mr. O. E. Brown,— That Mr. Gibson, Mr. Ruttle, Mr. Turner and Mr. Johnston be asked to act as

scrutineers. Carried.

Mr. Hoadley expressed his desire to withdraw his name as he had acted as president one year, and he considered it would be better to have a president selected every two or three years from among the members who had not previously acted as president. His nominator, however, refused to have him withdraw. On ballot being taken Mr. Lane was declared elected.

Moved by Mr. Hoadley, seconded by Mr. Brown,—
That the balance of the officers of last year be re-elected with the exception
that Mr. Schroeder be the director for Shires in the place of Mr. Hoadley. Carried. The following is a full statement of the officers for the ensuing year:

#### OFFICERS.

| President             | George Lane, Pekisko.      |
|-----------------------|----------------------------|
| First Vice-President  | C. J. Robert, Edmonton.    |
| Second Vice-President |                            |
| Secretary             | E. L. Richardson, Calgary. |

## BREED DIRECTORS.

| ClydesdalesJohn A. T    | Turner, Calgary.      |
|-------------------------|-----------------------|
| Shires F. Schroe        | der, High River.      |
| PercheronsW. B. The     |                       |
| ThoroughbredsO. Critchl | ey, Cochrane.         |
| StandardbredsI. G. Ruti | tle, Calgary.         |
| Coach Breds             | ldard, Cochrane.      |
| Hackneys                | die, De Winton.       |
| PoniesO. E. Bro         | wn, Calgary.          |
| Suffolk PunchGeo. Jaqu  | es, Lamerton.         |
| Belgians Baron Ge       | o. Roels, Pirmez Cree |

| Heavy Draught | E. D. Adams, Calgary.   |
|---------------|-------------------------|
| Cartage       | Fred Johnston, Calgary. |
| Roadsters     | Geo. T. Haag, Calgary.  |
| Carriage      | Chas. Riddock, Calgary. |
|               |                         |
| Delivery      |                         |
| Saddle        |                         |

#### GENERAL DIRECTORS.

| D. Clark, Gleichen.       |  |
|---------------------------|--|
| Thos. McMillan, Okotoks.  |  |
| D. P. McDonald, Cochrane. |  |

F. N. Bedingfield, Pekisko. Col. Walker, Calgary.

The question of the appointment of judges was then discussed, and finally left in the hands of the directors to deal with.

The meeting then adjourned.

## ANNUAL REPORT OF THE SECRETARY.

Gentlemen,—I beg to submit herewith the thirteenth annual report of the Alberta Horse Breeders' Association being for the year 1911-12.

#### SPRING HORSE SHOW.

During the past three or four years, the greatest progress has been shown in connection with the Provincial Spring Horse Show held at Calgary annually under the auspices of the Alberta and Dominion Departments of Agriculture and the Alberta Horse Breeders' Association. The increase in entries and attendance has been well in keeping with the progress made during the past few years in the development of Alberta. The following statement showing the number of entries, gate receipts and the amounts paid in prizes for the past four years is very encouraging to those who have co-operated in making this show a success.

|                 | 1908     | 1909 | 1910       | 1911 |
|-----------------|----------|------|------------|------|
| No. of entries  | 90       | 615  | 925        | 960  |
| Gate receiptsNo |          |      |            |      |
| Prizes paid     | charged. |      | \$4,479.70 |      |

Now that the show has grown to such proportions it can scarcely be expected that it will be possible to materially increase the number of entries. The greatest improvement which will be noted at the future shows will undoubtedly be more in the quality of the stock than in the numbers. Each year the exhibitors will take greater pains in training their horses and in bringing them out in the best possible condition; and the very high quality of the horses to be seen annually at the spring horse show will effectually demonstrate that the province of Alberta cannot be surpassed for horse raising, that the foundation stock of the various horse breeding establishments is of the best that can be secured in any part of the world, and that the horse breeders of Alberta are men of very considerable ability and skill.

The last show was officially opened on the evening of April 8 by His Honour Lieutenant Governor Bulyea. The auditorium was crowded to its capacity. The awards in the several classes were placed by the following judges:

Light harness classes—Dr. Roberts, Vancouver.

Saddle horse classes and Thoroughbreds—H. C. Lawson, Regina. Clydesdales, Shires and heavy draft horses—James McKirdy, Napinka, Man.

Percherons, Belgians and Suffolk Punch horses-Prof. W. L.

Carlyle, Moscow, Idaho.

Mr. W. S. Jacobs of Munson, Alta., acted as ring-master.

A feature of the horse show which deserves special mention was the splendid attendance of children on children's afternoon. The school teachers co-operated to make this day a success, and their efforts to interest the school children in horses were certainly appreciated.

Following is a complete list of the awards at the 1911 horse show:

#### I .- HEAVY HORSES.

## Clydesdales. Stallions, five years old and over.

| 1st. | Ruby BaronJohn A. TurnerCalgary.             |
|------|--|
| 2nd. | Glassford Squire W. E. Butler Ingersol, Ont. |
| 3rd. | Baron AilsaE. D. Adams                       |

### Stallion, four years old.

| 1st. | AllanfernJohn A. TurnerCalgary.   |
|------|-----------------------------------|
| 2nd. | Scotland StandardA. L. Dollar     |
| 3rd. | Col. McQueenJames ClarkCrowfoot.  |
| 4th. | Bay Ronald Duncan Clark Gleichen. |

#### Stallion, three years old.

| 1st. | Dunoon      | .Geo. O'Brien     | .Calgary.    |
|------|-------------|-------------------|--------------|
| 2nd. | Argaty      | . Harold Banister | . Davisburg. |
| 3rd. | Meadow Bank | .John A. Turner   | . Calgary.   |
| 1+h  | Sir Norton  | Iames Blark Ir    | Gleichen     |

## Stallion, two years old.

| 1st. | Slogarie           | Geo. | O'Brien   | . Calgary. |
|------|--------------------|------|-----------|------------|
| 2nd. | Bouncing Billy     | Geo. | O'Brien   | Calgary.   |
|      | Scotland's Triumph |      |           |            |
| 4th  | Prince Bountiful   | John | A. Turner | . Calgary. |

## Stallion, foaled in 1910.

|      | FavoriteJohn A. TurnerCalgary.     |
|------|------------------------------------|
| 2nd. | Premier                            |
| 3rd. | Barlae Jem Bryce Wright De Winton. |
| 4th. | Bob ShirleyJ. W. HayesCalgary.     |

## Stallion, two years and under, bred in Canada.

|      | Prince BountifulJohn A. TurnerCalgary.  |
|------|---|
|      | Baron of MoosominW. H. CroxfordAirdrie. |
|      | New Jersey Bryce Wright De Winton.      |
| 4th. | Sonsie Laddie                           |

#### Stallion over two years, bred in Canada.

| 1st. | Col. McQueen Jan     | nes Clark | .Crowfoot.  |
|------|----------------------|-----------|-------------|
| 2nd. | Crown and Feather Wi | n. Moodie | .De Winton. |
| 3rd. | Pride of Lindsay Ge  | o. Spence | .Cremona.   |
|      | Diplomat             |           |             |

# Mare, four years or over.

| The west four years or over.   |  |  |  |  |
|--|--|--|--|--|
| 1st.     Irene.     John A. Turner.     Calgary.       2nd.     Eurydice.     Thos. McMillan.     Okotoks.       3rd.     Maggie Fleming.     Harold Banister.     Davisburg.       4th.     Lily Gartly.     A. J. B. Dewdney.     Calgary. |  |  |  |  |
| Mare, three years.   |  |  |  |  |
| 1st.       Poppy.       John A. Turner       Calgary.         2nd.       Georgina Murray       Geo. O'Brien       Calgary.         3rd.       Daisy Marshall       W. S. Herron       Calgary.   |  |  |  |  |
| Filly,twoyears.  |  |  |  |  |
| 1st.       Pirene.       John A. Turner       Calgary.         2nd.       College Queen.       Geo. O'Brien.       Calgary.         3rd.       Ruby McIntyre.       Bryce Wright.       De Winton.   |  |  |  |  |
| Filly foaled in 1910.  |  |  |  |  |
| 1st. Maud McIntyre Bryce Wright De Winton. 2nd. Dolly D J. W. Hayes Calgary.   |  |  |  |  |
| Three, purebred or grade, any age or sex.  |  |  |  |  |
| 1st. Barlae Jem, New Jersey and Favorite. Bryce Wright, De Winton. 2nd. Col. McQueen, Lilly McQueen, Fancy McQueen. James Clark, Crowfoot.   |  |  |  |  |
| Best Canadian Bred Clydesdale, Stallion, any age.  |  |  |  |  |
| Prince Bountiful John A. Turner Calgary. Reserve, Col. McQueen James Clark Crowfoot.   |  |  |  |  |
| Best Canadian bred Clydesdale, female, any age.  |  |  |  |  |
| EuridyceOkotoks.   |  |  |  |  |
| Champion Clydesdale Stallion, any age.   |  |  |  |  |
| Ruby Baron. John A. Turner. Calgary. Reserve, Dunnoon. Geo. O'Brien. Calgary.  |  |  |  |  |
| Champion Clydesdale, female, any age.  |  |  |  |  |
| Irene  |  |  |  |  |
| SHIRES.  |  |  |  |  |
| Shire stallion, three years or over.   |  |  |  |  |
| 1st.Windridge Boy.W. W. Hunter.Olds.2nd.Acle Harold.F. Schroeder.High River.3rd.Gilibrand Flag.Geo. Hoadley.Okotoks.   |  |  |  |  |
| Shire stallion, two years.   |  |  |  |  |
| 1st. Intake CoronationF. Schroeder   |  |  |  |  |
| Mare, two years or over.   |  |  |  |  |
| 1st. Fern  |  |  |  |  |
| Best Shire stallion, any age.  |  |  |  |  |
| Windridge PrideW. W. HunterOlds.   |  |  |  |  |

# PERCHERONS.

| Stallion, | five | years | or | over. |
|-----------|------|-------|----|-------|
|-----------|------|-------|----|-------|

|                                      | 7.1  |  |  |  |  |  |
|--------------------------------------|--|--|--|--|--|--|
| 1st.<br>2nd.                         | Echad  |  |  |  |  |  |
| Stallion, four years.                |  |  |  |  |  |  |
| 1st.<br>2nd.<br>3rd.<br>4th.         | Halifax  |  |  |  |  |  |
|                                      | Stallion, three years.   |  |  |  |  |  |
| 1st.<br>2nd.<br>3rd.<br>4th.<br>5th. | Illico. W. B. Thorne Aldersyde.  Ilmen. Geo. Lane & Gordon, Ironsides & Fares Co. Pekisko.  Institute Geo. Lane Bassano.  Ilus Robt. Hamilton & Sons, Simcoe, Ont.  Imprimer. W. W. Hunter Olds. |  |  |  |  |  |
|                                      | Stallion, two years.   |  |  |  |  |  |
| 1st.<br>2nd.                         | FenelonY. Drake and W. E. & R. C. Upper Elbow River.  BrilliantStooke & AmeryCrossfield.   |  |  |  |  |  |
|                                      | Mare, three years or over.   |  |  |  |  |  |
|                                      | Bichette. Geo. Lane & Gordon, Ironsides & Fares Co. Pekisko. Giges. J. C. Drewry. Cowley. Amanda J. C. Drewry. Cowley. Giberne. C. R. de la Vergne. Glenbow. Illyre. W. W. Hunter. Olds.         |  |  |  |  |  |
|                                      | Filly, two years.  |  |  |  |  |  |
| 1st.                                 | ColumbiaGeo. Lane & Gordon,<br>Ironsides & Fares CoPekisko.  |  |  |  |  |  |
| Filly Foaled in 1910.                |  |  |  |  |  |  |
| 1st.<br>2nd.                         | Brillia  |  |  |  |  |  |
|                                      | Best Percheron Stallion, any age.  |  |  |  |  |  |
| Halif<br>Rese                        | ax   |  |  |  |  |  |
|                                      | Best Percheron female, any age.  |  |  |  |  |  |
|                                      | ette   |  |  |  |  |  |
|                                      | Best Canadian bred Percheron mare, any age.  |  |  |  |  |  |
|                                      | mbia   |  |  |  |  |  |

| Best Canadian bred Percheron filly, one year old.   |
|---|
| BrilliaCrossfield.  |
| BELGIANS.   |
| Stallion, three years or over.  |
| 1st.       Gamin de Questenne       R. Pirmez       Pirmez Creek.         2nd.       Heron de Melin       W. W. Hunter       Olds.         3rd.       Pius       Jas. Faris       Trenville.  |
| Mare, three years or over.  |
| 1st. Bobine de Houdzocht . W. W. Hunter Olds. 2nd. Cora de Croix W. W. Hunter Olds. 3rd. Mathilde   |
| Best female, any a <b>g</b> e.  |
| Bobine de HoudzochtW. W. HunterOlds.  |
| SUFFOLK PUNCH.  |
| Stallion, four years or over.   |
| 1st. Morston Gay Monarch. Archie Jaques. Lamerton. 2nd. Soapsuds. Spencer Pearse. East End, Sask. 3rd. Rendalshem Matchem. Archie Jaques. Lamerton. 4th. Rendalshem Snow King. H. W. Savory. Lethbridge.  |
| Stallion, three years.  |
| 1st.       Ashmoor Rufus       Geo. Hoadley       Okotoks.         2nd.       Morton Rambler       Spencer Pearse       East End, Sask.         3rd.       Haskerton Snipe       Archie Jaques       Lamerton.         4th.       Rendalshem Beggar       Archie Jaques       Lamerton. |
| Best Stallion, any age.   |
| Ashmoor RufusGeo. HoadleyOkotoks.   |
| HEAVY GRADE FOALS.  |
| Grade joals of either sex, foaled in 1910.  |
| 1st. Puss R. Young Springbank. 2nd Harold Banister Davisburg.   |
| DRAUGHT HORSES.   |
| Four-horse team, Percheron, Belgian or Suffolk.   |
| 1st. Geo. Lane & Gordon, Ironsides & Fares Co Pekisko.  |
| Four-horse team, Clydesdales and Shires.  |
| 1st.       James Clark.       Crowfoot.         2nd.       Pacific Cartage Co.       Calgary.         3rd.       Pacific Cartage Co.       Calgary.   |
| Team in harness only, each horse to weigh 1,500 pounds or over.   |
| 1st. Fred and GartlyJ. ClarkCrowfoot. 2nd. Proud Beauty and Lily GartlyA. J. B. Dewdney Calgary. 3rd. Giberne and GloireC. R. de la Vergne Glenbow.   |
| 4th. Bog Davie Queen and Lily MacQueenJohn ClarkGleichen.   |

# Annual Report, 1911

| Team in harness only, each horse to weigh under 1,500 pounds but not less than 1,300 pounds.  |    |  |  |  |  |
|---|----|--|--|--|--|
| 1st. Dinah McClure and Fancy  |    |  |  |  |  |
| McQueen. James Clark. Crowfoot.  2nd. Duke and Prince. Thos. Watt. Calgary.   |    |  |  |  |  |
| Draught mare or gelding, 1,500 pounds or over.  |    |  |  |  |  |
| 1st.Maggie FlemingHarold BanisterDavisburg2nd.Fred.James Clark.Crowfoot3rd.Proud Beauty.A. J. B. Dewdney.Calgary.   | g. |  |  |  |  |
| Draught mare or gelding.  |    |  |  |  |  |
| 1st. Fancy McQueen. James Clark. Crowfoot. 2nd. Dinah McClure. James Clark. Crowfoot.   |    |  |  |  |  |
| Pair of grade horses, mares or geldings.  |    |  |  |  |  |
| 1st. Fred and Gartly. James Clark Crowfoot. 2nd. Prince and Barney. Malcolm McCannel  |    |  |  |  |  |
| Heavy draught grade team to be shown in harness only.   |    |  |  |  |  |
| 1st.       Fred and Gartly       James Clark       Crowfoot         2nd.       Pete and Mate       Johnston Cartage Co       Calgary         3rd.       Prince and Barney       M. McCannel       Carstairs |    |  |  |  |  |
| Heavy draught grade more or gelding.  |    |  |  |  |  |
| 1st.     Fred.     James Clark.     Crowfoot.       2nd.     Gartly.     James Clark.     Crowfoot.       3rd.     Pete.     Johnston Storage & Cartage Co.     Calgary.                                    |    |  |  |  |  |
| II.—LIGHT HORSES.   |    |  |  |  |  |
| THOROUGHBREDS (Registered).   |    |  |  |  |  |
| Stallion four years or over.  |    |  |  |  |  |
| 1st.Sinbad.Geo. M. Gray.Gleichen.2nd.Gay BoyDavid A. Campbell.Calgary.3rd.Chanter.W. H. Cochrane.Millarville4th.McIlvain.C. Meers.Calgary.  | e. |  |  |  |  |
| Stallion, three years old.  |    |  |  |  |  |
| 1st.King Copper Walter Sporle, Jr.Edmonto2nd.Tuscan.W. A. McKenzie.Calgary.3rd.Ensign W. A. McKenzie Calgary.   | n. |  |  |  |  |
| Stallion, two years old.  |    |  |  |  |  |
| 1st. Buri   | n. |  |  |  |  |
| Mare, three years or over.  |    |  |  |  |  |
| 1st.Barm.D. A. Campbell.Calgary.2nd.Miss Alvescot.Reed & Mayer.Calgary.3rd.Nellie Racine.W. J. Alford.Calgary.4th.Josie S.W. J. Alford.Calgary.   |    |  |  |  |  |
| Mare, two years.  |    |  |  |  |  |
| 1st. Winnie Wells. G. K. Allen. Edmonto 2nd. Lomont. J. R. Smith. Carbon.   | n. |  |  |  |  |

# DEPARTMENT OF AGRICULTURE

# Filly foaled in 1910.

| 1st.                         |  |
|------------------------------|--|
| Cana                         | dian Thoroughbred Horse Special for Thoroughbred Stallions<br>three years old and upwards, suitable for getting saddle<br>horses and hunters.  |
| Sinba                        | adG. M. GrayGleichen.  |
|                              | Best stallion, any age.  |
| Sinba                        | adG. M. GrayGleichen.  |
|                              | Best female, any age.  |
|                              | n  |
| Three                        | e pure bred or grade, any age or sex, bred in Alberta, progeny<br>of one registered sire.  |
| Tusc                         | allette, Tuscan and Ensign . W. A. McKenzie Calgary.   |
|                              | STANDARD BREDS.  |
|                              | Pacing stallion, three years old and over.   |
| 1st.<br>2nd.<br>3rd.         | I. G. Ruttle Geo. T. Haag. Calgary. M. S. McCarthy Geo. T. Haag. Calgary. Halmont W. B. Edwards. Crossfield.                                   |
|                              | Trotting stallion, three years old and over.   |
| 1st.<br>2nd.<br>3rd.<br>4th. | W.H.S. Geo. T. Haag. Calgary. General Bryson J. E. Shoultz. Pincher Creek. Moniemusk G. C. McMurray Calgary. Rampart. Dr. L. Saunders Calgary. |
|                              | Stallion, two years old.   |
| 1st.<br>2nd.<br>3rd.         | Prince Pong. J. R. Sutherland. Calgary. Alberta Pride. Thos. Collett. Raymond. Black Colt. A. N. Dafoe. Calgary.                               |
|                              | Stallion, foaled in 1910.  |
| 1st.                         | Sir WilfredJ. R. SutherlandCalgary.  |
|                              | Mare, three years or over.   |
| 1st.<br>2nd.<br>3rd.<br>4th. | Halberta. McKay & Smith Calgary. Bonnie. John Louden Calgary. Winona Wiggens I. G. Ruttle Calgary. Lamona I. G. Ruttle Calgary.                |
|                              | Mare, two years.   |
| 1st.<br>2nd.                 | Myrtle Page. J. Page. Calgary. Kippitaki. A. G. McDonald. Calgary.   |
|                              | Filly foaled in 1910.  |
| 1st.<br>2nd.                 | Mainsheaf  |
|                              | Best female, any age.  |
| Myrtl<br>Reser               | e Page   |

| Standard bred special, three pure bred or grade, bred in Alberta,<br>the progeny of one sire, registered.   |  |  |  |  |
|---|--|--|--|--|
| 1st. Three progeny of Ping PongG. T. HaagCalgary.   |  |  |  |  |
| 2nd. Conevberry, Happy.   |  |  |  |  |
| Myrtle PageA. G. McDonaldCalgary.   |  |  |  |  |
| HACKNEYS.   |  |  |  |  |
| Stallion, four years or over.   |  |  |  |  |
| 1st.Le RoiJohn WeirCarbon2nd.King of the WestA. A. RobinsonSaskatoon3rd.Ockwold PresidentThos. CollettRaymond4th.Scoreby GentlemanG. S. RosamondInnsifail   |  |  |  |  |
| Stallion, any age.  |  |  |  |  |
| 1st.       Woodland's Sensation.       J. J. Richards.       Red Deer.         2nd.       Le Roi       John Weir.       Carbon.         3rd.       King of the West.       A. A. Robinson,       Saskatoon. |  |  |  |  |
| Stallion, three years old.  |  |  |  |  |
| 1st. Starlight  |  |  |  |  |
| Mare, two years or over.  |  |  |  |  |
| 1st. Withan's Lady Tuck. F. C. Lowes & Co Calgary. 2nd. Goodmanham C. J. Robert Edmonton. 3rd. Warwick Lady   |  |  |  |  |
| Special donated by the Hackney Horse Society of Great Britain for best stallion, any age.   |  |  |  |  |
| Woodland's SensationJ. J. RichardsRed Deer.   |  |  |  |  |
| COACH BREEDS.   |  |  |  |  |
| Stallion, three years or over.  |  |  |  |  |
| 1st.Fra DiavoloG. E. Goddard.Cochrane.2nd.DariusGeo. Hoadley.Okotoks.3rd.BolivarG. E. Goddard.Cochrane.   |  |  |  |  |
| Stallion, any age.  |  |  |  |  |
| 1st.Fra Diavolo.G. E. Goddard.Cochrane.2nd.Bodo.J. B. Shearer.Edmonton.   |  |  |  |  |
| Best stallion, any age.   |  |  |  |  |
| Fra Diavolo   |  |  |  |  |
| Coach breed special, three purebred or grade, any age or sex, bred in Alberta, the progeny of one registered sire.  |  |  |  |  |
| 1st. Dainty, Daphne, Eclipse .G. E. Goddard Cochrane.   |  |  |  |  |
| LIGHT GRADE FOALS.  |  |  |  |  |
| Light grade foal of either sex foaled in 1910, sired by a registered light stallion.  |  |  |  |  |
| 1st. Foal   |  |  |  |  |

#### ROADSTERS.

# Mare or gelding over 15 hands.

|                              | generally deer and rearrange  |
|------------------------------|---|
| 1st.<br>2nd.<br>3rd.         | Bonnie. John Louden Calgary. Winona Wiggins I. G. Ruttle Calgary. King David Stirling & Parker Calgary.   |
|                              | Mare or gelding, 15 hands or under.   |
| 1st.<br>2nd.<br>3rd.<br>4th. | Dime.C. Riddock.Calgary.Neda.E. Sisley.Calgary.Maud.W. J. Alford.Calgary.Rowdy.F. Whitaker.Calgary.   |
| 4                            | Pair of trotting mares or geldings, three years old and over.   |
| 1st.<br>2nd.<br>3rd.         | King David and Prince. Stirling & Parker. Calgary. Winona Wiggins and MateI. G. Ruttle. Calgary. St. Patrick's Knight and                             |
| oru.                         | Dr. J. T. CoseJ. FarisTrenville.  |
| Singl                        | e trotting mare or gelding, three years old and over, 15.1 hands<br>or under.   |
| 1st.<br>2nd.<br>3rd.<br>4th. | Winona Wiggins. I. G. Ruttle. Calgary. Dime. C. Riddock. Calgary. Neda. E. Sisley. Calgary. St. Patrick's Knight. J. Faris. Trenville.                |
| Singl                        | e trotting mare or gelding, three years old and over 15.1 hands.  |
| 1st.<br>2nd.<br>3rd.<br>4th. | King David. Stirling & Parker. Calgary. Lady Lightfoot. W. Stuart & Co. Calgary. Barney. J. Louden. Calgary. Brampton Boy. F. C. Lowes & Co. Calgary. |
|                              | Pacing mares or geldings, three years old and over.   |
| 1st.                         | Bess M. and Admiral   |
| 2nd.                         | TogoJ. E. Moffatt,Claresholm, Lomona and Kootenai,I. G. RuttleCalgary.  |
|                              | Single pacing mare or gelding, three years old and over.  |
| 1st.<br>2nd.<br>3rd.         | Lomona. I. G. Ruttle. Calgary. Admiral Togo. J. E. Moffat. Claresholm. Honest Joe. C. Riddock. Calgary.   |
|                              | Team of drivers, shown to an appropriate vehicle.   |
| 1st.                         | Admiral Togo and Bess   |
| 2nd.<br>3rd.                 | M. J. Robertson and Moffatt, Claresholm<br>Alberta and Vedor. James Faris. Trenville.<br>St. Patriek and Dr. J. T.<br>Cox. J. Faris. Trenville.       |
|                              | CARRIAGE, COACH AND HACKNEY HORSES.   |
|                              | Pair of mares or geldings.  |
| 1st.<br>2nd.                 | Victor and VictoriaF. C. Lowes & CoCalgary.   |
| 3rd.<br>4th.                 | Lady Proaig and Lady Warwick. W. and T. Stewart. Priddis. Peacock and Harry. I. G. Ruttle. Calgary. Gay Boy and Billy Mac Stirling & Parker. Calgary. |
|                              |   |

# Mare or gelding.

| 1st.<br>2nd.<br>3rd.<br>4th.              | Lady Tuck F. C. Lowes & Co Calgary. Goodmanham May C. J. Robert Edmonton. Victoria F. C. Lowes & Co Calgary. Warwick Lady W. and T. Stewart Priddis.     |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|
|   | Mare or gelding over 15.1 hands.   |  |  |  |  |  |  |  |
| 1st.<br>2nd.<br>3rd.                      | Victoria F. C. Lowes & Co. Calgary. Bill. E. D. Adams. Calgary. Warwick Lady. W. and T. Stewart. Priddis.  |  |  |  |  |  |  |  |
|   | Mare or gelding 15.1 hands or under.   |  |  |  |  |  |  |  |
| 1st.<br>2nd.<br>3rd.                      | Going Some. F. C. Lowes & Co. Calgary. Barm. D. A. Campbell Calgary. Lady Proaig. W. and T. Stewart. Priddis.  |  |  |  |  |  |  |  |
|   | High Stepper, mare or gelding.   |  |  |  |  |  |  |  |
| 1st.<br>2nd.<br>3rd.<br>4th.              | Going Some. F. C. Lowes & Co. Calgary. Lady Tuck. F. C. Lowes & Co. Calgary. Warwick Lady W. and T. Stewart. Priddis, Game Cock. C. J. Robert. Edmonton. |  |  |  |  |  |  |  |
|   | Pair of high steppers, mares or geldings, 14.2 hands over.   |  |  |  |  |  |  |  |
| 1st.<br>2nd.                              | Lady Tuck and Crispian. F. C. Lowes & Co Calgary. Victor and Victoria F. C. Lowes & Co Calgary.  |  |  |  |  |  |  |  |
|   | Team of Drivers.   |  |  |  |  |  |  |  |
| 1st.<br>2nd.                              | Lady Proaig and Lady WarwickW. and T. StewartPriddis. Ajax and Golden RodG. E. GoddardCochrane.  |  |  |  |  |  |  |  |
| III.—LIGHT HARNESS CLASSES.               |  |  |  |  |  |  |  |  |
| Pony, 14.2 hands and under.               |  |  |  |  |  |  |  |  |
| 1st.<br>2nd.                              | Torrie E. H. Thomas. Lloydminster. Jacobite M. J. Carr Calgary.  |  |  |  |  |  |  |  |
| Pair of ponies, 14.2 hands under.         |  |  |  |  |  |  |  |  |
| 1st.<br>2nd.<br>3rd.                      | Sam and Satan W. J. Nolan Calgary. Kit and Gipsey C. Kinniburg Calgary. Modesty and Jacobite M. J. Carr Calgary.   |  |  |  |  |  |  |  |
| Cob, 14.2 and under 15 hands, in harness. |  |  |  |  |  |  |  |  |
| 1st.<br>2nd.<br>3rd.                      | Going Some F, C. Lowes & Co. Calgary. Billy A, J. B. Dewdney Calgary. Modesty M. J. Carr Calgary.  |  |  |  |  |  |  |  |
|   | TANDEM, FOUR-IN-HAND AND COMBINATION CLASSES.  |  |  |  |  |  |  |  |
|   | Tandems, light mares and geldings, 14.2 hands and over.  |  |  |  |  |  |  |  |
| 1st.<br>2nd.                              | Victor and VictoriaF. C. Lowes & CoCalgary Lady Proaig and War- wick LadyW. and T. StewartPriddis.   |  |  |  |  |  |  |  |
|   | Four-in-hand, light, 15 hands and over.  |  |  |  |  |  |  |  |
| 1st.<br>2nd.                              | Peacock, Harry, Darkey and Jim I. G. Ruttle Calgary Stirling & Parker Calgary.   |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |

| Combination | horse. | mare | or | aeldina. | 15.1 | hands | and. | under. |  |
|-------------|--------|------|----|----------|------|-------|------|--------|--|
|             |        |      |    |          |      |       |      |        |  |

| 1st.<br>2nd.<br>3rd.<br>4th. | Barm.D. A. Campbell.Calgary.So Am I.F. C. Lowes & Co.Calgary.Red Fox.Tom Ward.Calgary.Rowdy.F. Whitaker.Calgary.   |
|------------------------------|--|
|                              | Combination horse, mare or gelding, over 15.1 hands  |
| 1st.<br>2nd.<br>3rd.         | Witchcraft Geo, A. Hull Calgary,<br>Jim. W. and T. Stewart Priddis,<br>Donald M. J. Carr Calgary.  |
|                              | SPECIAL FOR BOYS AND GIRLS.  |
|                              | Saddle pony, 14.2 hands or under, ridden by girl.  |
| 1st.<br>2nd.<br>3rd.<br>4th. | Flirt. R. Von Strallendorf Okotoks.  Jacky. Miss E. M. Millar Millarville  Jacobite. M. J. Carr Calgary.  Manniken. M. J. Carr Calgary.  |
|                              | Saddle pony, 14.2 hands or under, ridden by boy.   |
| 1st.<br>2nd.<br>3rd.<br>4th. | Jacky.Miss E. M. MillarMillarvilleGingerGeo. ShortCalgary.FanW. and T. StewartPriddis.JacobiteM. J. CarrCalgary.   |
|                              | Pony, 14.2 hands or under driven by boy or girl.   |
| 1st.<br>2nd.<br>3rd.         | Jacky.Miss E. M. MillarMillarvilleJacobiteM. J. Carr.CalgaryDobbinGeo. HoadleyOkotoks  |
|                              | Combination pony, 14 hands and under.  |
| 1st.<br>2nd.<br>3rd.         | Jacky.Miss E. M. MillarMillarvilleDobbin.Geo. Hoadley.Okotoks.Nettie.Ben Tesky.Calgary.  |
|                              | Shetland Pony.   |
| 1st.<br>2nd.                 | Tommy. W. C. Hoadley Okotoks.<br>Londillon. Stanley Slater. Calgary.   |
|                              | IV.—SADDLE CLASSES.  |
|                              | Saddle horse, over 14.2 hands.   |
| 1st.                         | Royal GeorgeW. A. McKenzieCalgary.   |
| Mare                         | or gelding under English or stock saddle, over 15.1 hands.   |
| 1st.<br>2nd.<br>3rd.<br>4th. | Katy Did F. C. Lowes & Co. Calgary. Journalist W. J. Watson Calgary. Cottontail Mrs. Millar Millarville. Sailor Geo, Roels Calgary   |
| Mare                         | or gelding under English or stock saddle, 15.2 hands or under<br>but over 14.2.  |
| 1st.<br>2nd.<br>3rd.<br>4th. | Lady Princess       R. Von Strallendorf       Okotoks         So Am I.       F. C. Lowes & Co.       Calgary         Lady Beaver Dam       R. Von Strallendorf       Okotoks         Caesar       E. Doughty       Calgary |
|                              |  |

|                                      | ,   |
|--------------------------------------|---|
| Cob,                                 | 14.2 hands and under 15 hands, shown under English saddle.  |
| 1st.<br>2nd.<br>3rd.<br>4th.         | So Am I F. C. Lowes & Co Calgary. Light Brigade   |
| Ladie                                | es' Saddle Horse, mare or gelding, 15.1 hands and under.  |
| 1st.<br>2nd.<br>3rd.<br>4th.         | Lady Beaverdam. R. Von Strallendorf. Okotoks. Lou. E. L. McBride. Cochrane. Lady Princess. R. Von Strallendorf. Okotoks. Red Wing. A. G. D. Kitson. Calgary.  |
|                                      | Park hack under 16 hands, shown under saddle.   |
| 1st.<br>2nd.<br>3rd.                 | Katy Did. F. C. Lowes & Co. Calgary. Lady Beaverdam R. Von Strallendorf Okotoks. Blackfoot Count de Roaldes.  |
|                                      | Ladies' saddle horse, mare or gelding, over 15.1 hands.   |
| 1st.<br>2nd.<br>3rd.<br>4th.         | Journalist.W. J. Watson.Calgary.Katy Did.F. C. Lowes & Co.Calgary.Cottontail.Mrs. Millar.Millarville.Kelowna.Miss Hutchinson.Calgary.                         |
|                                      | Military Remount.   |
| 1st.                                 | MariaR. YoungSpringbank   |
|                                      | Light weight polo pony, or pony suitable for polo.  |
| 1st.<br>2nd.<br>3rd.<br>4th.         | First Principal. Murray Hendrie. High River Beauty. K. J. Snowden. Pekisko. Flirt. R. Von Strallendorf. Okotoks. Lady Princess. R. Von Strallendorf. Okotoks. |
|                                      | Heavy weight polo pony, or pony suitable for polo.  |
| 1st.<br>2nd.<br>3rd.<br>4th.         | Carbine.W. A. McKenzie.Calgary.Robin.A. J. B. Dewdney.Calgary.ModestyM. J. Carr.Calgary.Lou.E. L. McBride.Cochrane.   |
|                                      | Grand Champion saddle horse.  |
| Katy                                 | Did F. C. Lowes & Co Calgary.   |
|                                      | V.—HUNTERS AND JUMPERS.   |
|                                      | Hunter, mare or gelding.  |
| 1st.<br>2nd.<br>3rd.<br>4th.<br>5th. | JournalistW. J. WatsonCalgary.PleaseGeo. RoelsCalgary.FlirtR. Von StrallendorfOkotoksSailorGeo. RoelsCalgary.KelownaMiss HutchinsonCalgary.                   |
|                                      | Hunter, mare or gelding, 14.2 hands or under.   |
| 1st.<br>2nd.<br>3rd.<br>4th.         | White Eagle R. Von Strallendorf Okotoks. Flirt R. Von Strallendorf Okotoks. Modesty M. J. Carr. Calgary. Comet Angus McPherson. Cochrane.                     |
|                                      | Hunter, mare or gelding, over 14.2 hands.   |
| 1st.<br>2nd.<br>3rd.<br>4th.         | JournalistW. J. WatsonCalgaryPleaseGeo, RoelsCalgaryPaddyF. C. Lowes & CoCalgaryLady BeaverdamR. Von StrallendorfOkotoks                                      |
|                                      |   |

# High Jump.

| 1st.                         | Smokey and FrolicD. P. McDonald and R. Von StrallendorfOkotoks.  |
|------------------------------|--|
| 2nd<br>3rd.<br>4th.          | Flirt R. Von StrallendorfOkotoks.  |
|                              | Okotoks Hunter Trophy.   |
| 1st.                         | PleaseGeo, RoelsCalgary.   |
| Cha                          | llenge Cup offered by Count de Roaldes, for best performance over four timber jumps.   |
| 1st.                         | Frolic R. Von StrallendorfOkotoks.   |
|                              | Champion Jumper.   |
| Pade<br>Rese                 | dy F. C. Lowes Calgary. rve, Flirt R. Von Strallendorf Okotoks.  |
| $oldsymbol{Light}$           | t weight hunter, mare or gelding, four years or over, 15 hands or over.  |
| 1st.<br>2nd.<br>3rd.         | JournalistW. J. WatsonCalgaryLady BeaverdamR. Von StrallendorfOkotoksFrolicR. Von StrallendorfOkotoks  |
| Hear                         | y weight hunter, mare or gelding, four years or over, 15 hands or over.  |
| 1st.<br>2nd.<br>3rd.         | Please       Geo. Roels       Calgary.         Sailor       Geo. Roels       Calgary.         Cottontail       Mrs. Millar       Millarville |
|                              | Champion Hunter.   |
| Jour                         | nalist   |
|                              | VI.—GENERAL CITY DELIVERIES AND DRAY CLASSES.  |
|                              | Mare or gelding shown to express or delivery rig.  |
| 1st.<br>2nd.<br>3rd.         | P. Burns & Co. Calgary. Ontario Laundry Calgary. Carlyle Dairy Co. Calgary.  |
|                              | Mare or gelding shown to single lorrie or cart.  |
| 1st.<br>2nd.<br>3rd.         | W. Stewart   |
|                              | Heavy team as used by wholesalers, etc.  |
| 1st.<br>2nd.<br>3rd.<br>4th. | W. Stuart & Co. Calgary. The Arctic Ice Co. Calgary. P. Burns & Co. Calgary. Winnipeg Oil Co. Calgary.                                       |
|                              | Light team as used by wholesalers, etc.  |
| 1st, 2                       | nd and 3rd—Ontario Laundry   |
|                              | Heavy team as used by cartage company.   |
| 1st.                         | Pacific Cartage Co   |
|                              | Single delivery, mare or gelding, 16 hands or over.  |
| 1st.                         | Geo. Short   |



STEERS ON WINTER FEED AT DEMONSTRATION FARM, OLDS.



### Grand champion cartage team.

| W. | Stuart | & | Co |  |  |  | Calgary. |
|----|--------|---|----|--|--|--|----------|
|----|--------|---|----|--|--|--|----------|

#### LIVERY RIGS AS LET FOR HIRE.

## Livery Exhibit.

| 1st. | I. G. Ruttle      | Calgary. |
|------|-------------------|----------|
| 2nd. | Stirling & Parker | Calgary, |

## Pair of mares or geldings.

| 1st. | Darkey and Jim     | I. G. Ruttle      | Calgary. |
|------|--------------------|-------------------|----------|
| 2nd. | Gay Boy and Billie | Stirling & Parker | Calgary. |

Mare or gelding, 14.2 hands or over, shown under saddle.

| lst.<br>2nd. | HectorPeacock | A. G. AlfordI. G. Ruttle | Calgary .<br>Calgary . |
|--------------|---------------|--------------------------|------------------------|
|              |               |                          |                        |

## FINANCIAL STATEMENT.

I have pleasure in attaching hereto copy of the financial statement of the Horse Breeders' Association for the year 1911. The receipts and disbursements have been duly audited by your auditor. It is very pleasing to be able to report that although an increase of \$914.33 was paid in prizes over the amount paid at the 1910 show, the balance on hand has been increased from \$536.36 to \$809.20 during the year. The amount offered for prizes in the various classes is still considerably smaller than it should be, and an increase should be made as the funds of the association will permit. Following this policy your directors have added approximately \$1,800 to the prize list for 1912 over the amount offered in 1911. I wish on behalf of the association to thank the Hon. Duncan Marshall, Minister of Agriculture, for increasing the annual grant to the Alberta Horse Breeders' Association from \$1,200 to \$1,500, which increase will greatly assist the directors in carrying on the work of the association. I also wish to thank the Dominion Department of Agriculture for their assistance during the year.

Financial Statement of The Alberta Horse Breeders' Association for the Year ending 31st December, 1911.

## RECEIPTS.

| Membership fees                                   | \$205.00<br>4.600.10 |
|---|----------------------|
| Grant by Alberta Department of Agriculture\$1,200 | 0.00                 |
| Grant by Calgary City Council                     | 0.00                 |
|   | 6.67                 |
| Cash donations                                    | 0.00                 |
| Donations of medals, trophies, etc., value        | 5.00 3,421.67        |
| Entry fees  | 1,131.00             |
| Advertising and catalogue privilege               | 240.00               |
| Collected for Miss Walsh's trophy                 | 95.00                |
| Sundries  | 60.05                |
| Total receipts 1911                               | 9,752.82             |
| Balance on hand December 31st, 1910               | <b>5</b> 36.36       |
|   | \$10.287.18          |

#### DISBURSEMENTS.

| Paid in prizes. Grounds expense, rent of rink and extra help. Postage, stationery and office expense. | 2 765 -26        |
|---|------------------|
| Secretary's salary Printing and advertising Sundries  | 500.00<br>584.60 |
|   | 9 477 98         |

\$10,287.18

Examined and found correct, 15th February, 1912.

(Sgd.) F. R. EXHAM, Auditor.

## NEW SPECIAL LIVE STOCK CONTRACT.

The freight departments of the railroads operating in Canada prepared a special live stock contract for use in shipping live stock by freight throughout Canada. The proposed new contract contained many clauses which were considered very unfair by the live stock shippers. The Alberta Horse Breeders' Association in co-operation with Live Stock Commissioner Stevens of Alberta, the Provincial Horse Breeders' Associations throughout the Dominion of Canada, and the Canadian Manufacturers' Association, took up the matter in order that any new regulations which were put in force would be reasonable. A conference was arranged for in Toronto, and the Alberta Horse Breeders' Association was represented by the President, Mr. George Lane, Mr. W. F. Stevens, Live Stock Commissioner for Alberta, and Mr. Chas. Hotchkiss of the Department of Agriculture, The representatives of the various associations held several meetings in Toronto in December, 1911, and also had interviews with the railway representatives. A committee was appointed to complete the negotiations, and to take the matter before the Railway Commissioners if a reasonable contract was not agreed to by the railway officials. Negotiations are not yet completed, and it is probable that before the contract is passed by the Railway Commission evidence will be taken throughout Canada by the commission in order that an agreement may be made which will be equitable between the shippers and the Railway Companies.

# IMPORTATION OF INFERIOR HORSES FROM THE UNITED STATES.

The importation of inferior horses from the United States to Alberta during the month of February was brought to the attention of the association. A special meeting of the directors was called at which the undersigned submitted several photographs of the horses. It was the opinion of those who saw the horses that they were not all broken, and should not therefore have been allowed to pass the customs inspection. A number of the horses referred to were such as are usually found on Indian reserves, the importation of which is a serious detriment to the horse breeding interests of the province. The following resolution was passed unanimously by the directors:

That the Alberta Horse Breeders' Association respectfully request the Minister of Customs and the Veterinary Director General to thoroughly investigate the shipments of horses imported to Calgary via Twin Lakes and Cardston, and offered for sale at the Calgary stock yards on February 29th, so as to satisfy themselves

that the shipments in question were imported in strict accordance with the law governing such importations, and in case these importations did not comply with the regulations, that proper steps be taken to reprimand any officials who are not properly enforcing the regulations, and that every effort be made to prevent a repetition of such importations.

#### MINIMUM VALUATION OF HORSES.

The question of the minimum valuation of \$50 on horses being imported from the United States was discussed, and it was the general opinion that owing to the increased value of horses during the past few years, that the minimum valuation should be raised from \$50 to \$100, and that the valuation of \$100 would now have practically the same effect as the valuation of \$50 had at the time it was put into force. The following resolution was unanimously passed and forwarded with the above resolution to the Minister of Customs and the Veterinary General at Ottawa:

That in view of the increase in the value of horses during the past few years, and to prevent the importation of undesirable horses to Canada, the minimum valuation on horses being imported from the United States to Canada should be increased from \$50 to \$100 per head.

The question of the increase in the minimum valuation will be brought to the attention of the proposed tariff commission, and the matter of the importation of inferior stock above referred to is now being thoroughly investigated, and a repetition of such an occurrence will no doubt be prevented in the event of this shipment having been imported contrary to the regulations. After the matter had been taken up by Dr. J. G. Rutherford, Live Stock Commissioner, he replied as follows:

Ottawa, March 20th, 1912.

DEAR SIR,—I beg to refer further to my letter of March 11th with regard to some recent importations of horses which have entered Alberta from the United States, and with special reference to sale of horses, some of which were alleged to

In this connection I would say that I am now in receipt of the reports of the inspectors of this branch in Alberta with regard to these animals. I find that twenty-one cars of horses and colts were, sometime previous to their final admission twenty-one cars of norses and coits were, sometime previous to their man admission to Canada, presented for entry at the port of Coutts, but, owing to the fact that the boundary inspector at that point was confined to his house with a broken leg, and there being no other inspector available at the time, the animals were trailed to Twin Lakes, where they were inspected and passed on February 21st and 22nd.

Our inspector at that port reports as being satisfied that all the adult animals were sufficiently gentle to enable him to examine them carefully, or submit them to the mallein test if necessary, and the immature animals were also sufficiently gentle for this purpose.

The inspector of this branch at Calgary, who examined the animals in the stock yards there prior to the sale, reports that, with the exception of eighty-one foals and a number of immature animals, this consignment appeared to be gentle and exhibited harness or saddle marks, or other evidence that they had been handled

at some time.

Dr. Hargrave of Medicine Hat, the officer in charge of the work of this branch, in Alberta, who examined such of the animals as remained in the stock yards after the sale, reports that, with the exception of the young animals in the bunch, all appeared to be broken, and that he has no doubt but that the entire consignment was in strict accordance with section 33 of the regulations. It would not therefore, appear necessary that any further action in this connection is necessary on the part of this department.

Yours faithfully,

(Sgd.) J. G. RUTHERFORD, Veterinary Director-General.

## NATIONAL LIVE STOCK CONVENTION.

A convention of the National Live Stock Association of Canada was called at Ottawa on February 12 and 13. The Alberta Live Stock Associations were represented by thirteen delegates. President Geo. Lane, Dr. Hargrave, John A. Turner, Baron Geo. Roels, O. E. Brown, and your secretary being present from the directorate of the Alberta Horse Breeders' Association. The convention has in the past been held every four years, and an effort is being made to have the convention held every other year in the future, and to have meetings of the directorate every year so that the matters of importance may be dealt with more promptly, and the breeders of the Dominion of Canada may be kept in closer touch with each other.

With the continued marvellous development of this province, and the large amount of railway construction, a good horse market is assured for Alberta horse breeders for a number of years to come. Large importations of purebred horses have been made during the year, principally from the British Isles, the United States and France, and the outlook is bright for the horse breeding industry.

## NEW HORSE SHOW BUILDING.

The success the Alberta Horse Breeders' Association have made of the Provincial Spring Horse Show held annually for the past ten years, has resulted in a splendid new horse show building being erected during the year at Victoria Park. The building was erected by the Industrial Exhibition Company with funds provided by the citizens of the city. The building cost slightly over \$50,000, is 130 feet wide by 300 feet long, has a judging arena 84 feet by 220 feet a promenade six and a half feet wide around the judging arena, and has seating accommodation for 2,600 visitors. Almost as many more may be accommodated in the promenade. The bandstand is suspended from the roof about 35 feet from the ground. The building is lighted with 72 250-watt tungsten lights, is heated with four large hot air furnaces, has a commodious entrance, a ladies' dressing room, a smoking room, lavatories, and a gas hot water heating plant to provide hot water for exhibitors. Immediately adjoining the building a hitching floor 80 feet by 110 feet has been provided, costing \$4,500. The entrance for exhibits opens into the horse show building from the hitching floor, and a separate exit is also provided for exhibits. Twenty-five large stables are located close to the horse show building. The Alberta Horse Breeders' Association is now in the best position in its history to provide for the comfort of exhibitors and visitors to the annual show.

Respectfully submitted,

E. L. RICHARDSON,

Secretary.

# APPENDIX B.

## ALBERTA CATTLE BREEDERS' ASSOCIATION.

TWELFTH ANNUAL REPORT.

HON. DUNCAN MARSHALL, Minister of Agriculture,

SIR.—I have the honour to submit herewith the twelfth annual report of the proceedings of the Alberta Cattle Breeders' Association for the year 1911.

The annual meeting was held in the horse show building, Calgary,

April 8th, 1912.

#### MINUTES OF ANNUAL MEETING.

The president, Mr. J. L. Walters, in the chair. The minutes of the last annual meeting were adopted as read.

The manager presented the annual report and financial statement for the

Moved by Mr. Bryce Wright (De Winton), seconded by Mr. John A. Turner (Calgary),

That the reports be adopted. Carried.

That the reports be adopted. Carried.

Mr. Walters brought up the question of a proper system of brand inspection, and called on Mr. Usher, representing the Central Stock Growers' Association, to address the meeting. He referred to the frequency with which brand certificates are given without any inspection, and stated that wrong brands were sometimes given in order to have the cattle passed. He referred to a recent shipment from the north eastern part of the province to Calgary which had been passed by the inspector, certificates had been given and the animals afterwards sold and slaughtered, although the animals were said to have been stolen from a field and as a result of their not being actually inspected the irregularity was not detected before shipment. He explained that after the practical stockmen of the Central Stock Growers' Association had thoroughly discussed the matter they had come to the conclusion ment. He explained that after the practical stockmen of the Central Stock Growers' Association had thoroughly discussed the matter they had come to the conclusion that it was difficult to suggest an improvement to the brand inspection regulations if they were properly carried out, and it was suggested that a chief brand inspector be appointed whose duty it would be to go from point to point and instruct and assist inspectors, and to prevent the inspectors from granting brand certificates without actually having inspected the stock.

Mr Whitegies another representative of the Central Stock Growers' Association

Mr. Whiteside, another repsesentative of the Central Stock Growers' Association, who arrived after Mr. Usher had spoken, dealt with the matter along similar lines. The Hon. Duncan Marshall, Minister of Agriculture, who came to the meeting immediately on arrival of his train, added a few remarks in which he stated that the trouble was more with the system than with the inspectors. He explained that it was very difficult to get brand inspectors who had sufficient experience in reading brands to make their work effective, as it was almost an impossibility for any inspector, particularly if the inspector had not a very wide experience in conmection with reading brands, to properly inspect large numbers of cattle as they were being driven past him into the cars. He explained that the department was very glad to have the co-operation of the various associations to suggest improvements to the present system. His department would be willing to spend a reasonable amount of money to endeavour to have a proper system inaugurated. reasonable amount of money to endeavour to have a proper system inaugirated. Mr. Marshall suggested that a committee consisting of two representatives each from the Alberta Horse Breeders' Association, the Alberta Cattle Breeders' Association, the Western Stock Growers' Association and the Central Stock Growers' Association, meet himself and Mr. Harcourt, Deputy Minister of Agriculture, go thoroughly into the matter and draft the best possible regulations which could be submitted to the next session of the legislature. This suggestion was accepted and on motion of Mr. Hutchinson, seconded by Mr. Tees, it was decided to appoint a committee of two to act with the other association delegates in connection with forming improved brand insection regulations. proved brand inspection regulations.

Moved by Mr. Hutchinson, seconded by Mr. Richards,— That Messrs. Walters and Tees be the memebrs of the committee referred to.

Carried.

Mr. Usher then pointed out that this suggestion of the committee was very good, but as the regulations could not in this way be changed until after the next session of the legislature, and in the meantime another cattle crop would have been shipped, he suggested that some arrangement be made with Mr. Saunders, Brand Inspector, to inspect all cattle coming into Calgary. Mr. Harcourt, Deputy Minister of Agriculture, explained that Chief Inspector Saunders was at the present time inspecting all stock coming into Calgary, but that this was rather more than could be expected of one man. The various committees, therefore, arranged to meet Mr. Saunders during the week, and see if they could not together arrange for some improvement which would be effective for this season's shipping.

#### THE MINISTER'S ADDRESS.

The Minister of Agriculture was then asked to address the meeting. Mr. Marshall stated that he was pleased so many wheat farmers were gradually becoming interested in dairying and cattle raising. This showed that the necessity of going into mixed farming and cattle raising, instead of straight wheat farming, was generally recognized. He mentioned the fact that a banker had recently told a farmer that he would be pleased to lend him money to buy cattle, but would not lend money on grain. He explained that he had recently returned from the east where arrangements had been made for some grade dairy cattle to be purchased, and which would be placed on the demonstration farms and sold to the farmers at actual cost. The Canadian Pacific Railway Company were co-operating with his department in this matter, and supplying free transportation. He did not wish to compete with the breeders of purebred bulls, but he believed that the importation of good dairy cattle would undoubtedly stimulate the demand for purebred sires. Mr. Marshall explained that he had noticed a very considerable increase in the price of cattle in the East at the present time and prices a few years ago, which was an encouragement to the Western farmer to go into the cattle business more extensively. His department was willing and anxious to do all in their power to improve general conditions in connection with the cattle business of Alberta.

#### ELECTION OF OFFICERS.

| The election of officers was then proceeded with and resulted as follows: |  |
|---|--|
| Hon, Fresident  |  |
| Tresident   |  |
| Vice-President Wm Sharn Lacombo   |  |
| Second Vice-President   |  |

#### BREED DIRECTORS.

| ShorthornsP. A. Switzer, Lacombe.     |
|---------------------------------------|
| Herefords P. F. Huntley, Lacombe.     |
| Aberdeen Angus Lew Hutchingon Duhamel |
| Calloways. W E Tees Lacombe           |
| Thos Lavenck Calgary                  |
| Ayrshires A. H. Trimble Red Deer      |
| Jerseys                               |

#### GENERAL DIRECTORS.

| S. M. Mace          | Pekisko             |
|---------------------|---------------------|
| W. P. Williams      | Fort Socientaharran |
| Thos. Baird.        | D-1 Will            |
| W T G McChare       | . rea wmow.         |
| W. T. G. McClure    | Innistail.          |
| Prof. W. J. Elliott | . Strathmore.       |

Moved by W. J. Watson, seconded by Mr. Tees,-

That W. J. Watson, Calgary, be the auditor for the ensuing year. Carried. It was pointed out at the meeting that owing to the probable increase to the fat stock show entries from outside of Alberta, the meeting would recommend to the Fat Stock Show Committee that duplicate classes be given for Alberta bred animals if possible.

The meeting then adjourned.

# ANNUAL REPORT OF THE SECRETARY.

Gentlemen,—I beg to submit herewith the twelfth annual report of the Alberta Cattle Breeders' Association being for the year 1911-12.

The last auction sale held at Calgary was among the most successful yet held by the association. Eighty-five bulls were sold for \$8,362 or an average of \$98.39. Only on three previous occasions was this average exceeded. Nine Aberdeen Angus bulls obtained the largest average price which was \$108.88. The Shorthorns came next, fifty being sold at an average price of \$103.24. The next in order were Galloways, Herefords and Ayrshires. The general quality of the animals was good, and it was pleasing to note the smaller percentage of animals which were not a credit to the sale. The quality of the animals offered at the sale is undoubtedly improving each year.

Considerable financial loss was shown on the year's business as a result of the increase in the cost of paying the freight for the delivery of the stock. The amount of transportation fees collected being \$725.47, whereas, the amount we had to pay out to the railway companies was \$1,085.33, showing a loss of \$360.00. A comparative statement is given below of the sales held under the auspices of the associations. It is very pleasing to note that these sales are continuing to be so successful, and are undoubtedly being a most convenient means of exchange of stock between the breeder and the purchaser.

| п          | i        | ı          |           |           |           |           |           |           |          |         |          |           |           |        |         |         |  |   |
|------------|----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|---------|----------|-----------|-----------|--------|---------|---------|--|---|
| HOLSTEINS  | Ave.     |            |           |           |           |           |           |           |          | :       | :        | \$76.66   |           |        |         |         |  |   |
| Ħ          | No.      |            | :         |           | :         |           | :         | :         | :        | :       | :        | 0.0       |           |        | :       | :       | :  | - |
| ANGUS      | Ave.     |            | 72.50     |           |           |           |           |           |          |         |          |           |           |        |         |         |  |   |
| AB         | No.      | -          | 2         | 0         | 2 10      | > <       | # 0       | 00        | ۍ د      | 9       | 4        | 11        | 14        | 1C     | 0 0     | D (     | 70   | 1 |
| AYRSHIRES  | Ave.     |            | \$51.30   | 15.00     |           |           |           |           | :        |         | : : :    | :         |           |        |         | 00.70   |  |   |
| ΥĀ         | No.      | 1 :        | ಣ         | -         |           |           | :         | :         | :        | :       | :        | :         | :         | 4      |         | H +     |  | 1 |
| GALLOWAYS  | Avc.     |            |           | \$75.00   | 40.71     | 64 00     | 165 00    | 200.00    | 00.00    | 00.00   | 30.00    | : : :     | 20.00     |        | 040     | 00.00   |  |   |
| GAL        | No.      | :          | :         | ,         | 7         | 10        | 000       | - ·       |          | ٠,      |          | :         | ن<br>دا   | :      | ,-      |         | :  | - |
| HEREFORDS  | Ave.     | :          | \$91.42   |           |           |           |           |           |          |         |          |           |           |        |         |         |  | - |
| H          | No.      | :          | 14        | 19        | 92        | 93        | 37        | 200       | 32       | 100     | 2 5      | 77        | 07        | -C     | 22      | 0       |  | - |
| SHORTHORNS | Ave.     | \$90.57    | 99.91     | 93.65     | 104.23    | 67.84     | 106.12    | 74 64     | 64 98    | 100 17* | 01 614   | 91.017    | 91.98*    | 97.08† | 103.24* | 105 14+ | 111.001  |   |
| вно        | No.      | 44         | 183       | 173       | 131       | 173       | 95        | 132       | 67       | 41      | 0 1      | 10        | × o       | 338    | 50      | 49      | 1  |   |
|            | Receipts | \$5,451.00 | 21,077.00 | 25,890.00 | 29,245.00 | 23,557.00 | 18,426.50 | 14,538,50 | 7.095 00 | 6395.00 | 4 705 00 | 10,000.00 | 10,035.00 |        |         |         |  |   |
| Attoroge   | Price    | \$ 85.17   |           |           |           |           |           |           |          |         |          |           |           |        |         |         |  | _ |
| Total      | Number   | 64         | 022       | 268       | 293       | 340       | 170       | 192       | 111      | 59      | 000      | 103       | TOT       | 70     | 82      | 55      |  | ! |
| VEAB       |          | 1901       | 1902      | 1903      | 1904      | 1905      | 1906      | 1907      | 1908     | 1909    | 1909     | 1010      | 1010      | 1910   | 1911    | 1911    | The same of the sa |   |

#### HIGHEST PRICES REALIZED.

1901 -\$250 Shorthorn bull sold by P Talbot & Son Lacombe

| TOOT, GEO.              | And the bold by 1. Itabet & son, Income                         |
|-------------------------|---|
| 1902.—\$290.            | Shorthorn bull sold by John Ramsay, Priddis.                    |
| 1903.—\$255.            | Hereford bull, sold by O. Palmer, Lacombe.                      |
| 1904.—\$285.            | Shorthorn bull, sold by Hon, W. Beresford, Calgary.             |
| 1905.—\$225.            | Shorthorn bull, sold by D. Sinclair, Innsifail.                 |
| 1906.—\$365.            | Shorthorn bull, sold by A. F. McGill, Lacombe.                  |
| 1907\$170.              | Shorthorn bull, sold by James Sharp, Lacombe.                   |
| 1908.—\$400.            | Shorthorn bull, sold by John A. Turner, Calgary.                |
| Calgary, 190            | \$180. Shorthorn bull, sold by Bryce Wright, De Winton.         |
| Calgary, 190            | \$180. Shorthorn bull, sold by Wm. Sharpe, Lacombe.             |
|                         | (\$150. Shorthorn bull, sold by Thos. Talbot, Lacombe.          |
| Lacombe, 190            | 9 \\$150. Aberdeen Angus bull, sold by R. E. Johnston, Lacombe. |
| , and the second second | \$150. Aberdeen Angus bull, sold by J. H. Fay, Blackfalds.      |
| Calgary, 191            | 0 \$205. Shorthorn bull, sold by Jas. A. Hogge, Okotoks.        |
| Lacombe, 191            | 0 \$200. Shorthorn bull, sold by Wm, Sharp, Lacombe.            |
| Calgary, 191            | 1 \$185. Shorthorn bull, sold by Wm. Sharp, Lacombe.            |
| Lacombe, 191            | 1 \$165. Shorthorn bull, sold by Wm. Sharp, Lacombe.            |

#### THIRD ANNUAL SALE HELD AT LACOMBE.

The last sale held at Lacombe was the most successful yet held. the average price being \$99.50. The number of bulls sold was 55. Three Aberdeen Angus obtained the average of \$108.33 which was the highest at that sale. Next came the Shorthorns, 42 of which were sold for an average of \$105.14. Nine Herefords were sold at an average of \$78.33, and one Ayrshire for \$75.00. Comparative prices of the Lacombe sale are included in the statement given above.

#### NATIONAL LIVE STOCK CONVENTION.

Your president, J. L. Walters, Vice-President Wm. Sharp, and your secretary attended the National Live Stock Convention at Ottawa on February 12th and 13th, 1912, together with ten other Alberta Live Stock Association representatives. During the convention an effort was made so that future conventions would be held every two years instead of every four years. The suggestion will, it is hoped, be adopted, and live stock breeders generally will be given a better opportunity of keeping in touch with each other, and dealing with matters of interest to them. Suggestions were also made that the directors of the National Association meet annually so as to take up questions requiring attention more promptly than has been possible in the past.

#### NEW SPECIAL LIVE STOCK CONTRACT. 115

A special live stock contract was prepared by the railway companies to be submitted to the railway commission. This contract would have taken the place of the contract that is now being used by the railway companies for the shipping of live stock. The proposed new contract contains certain clauses which were considered very unfair by the live stock shippers. The Alberta Cattle Breeders' Association in conjunction with the other Provincial Live Stock Associations of Alberta and of the other provinces of the Dominion, the Canadian Manufacturers' Association, and the live stock shippers, took united action to see that any contract accepted by the railway commission would be a reasonable one. Several meetings of live stock representatives were held in Toronto during December last, the Cattle Breeders' Association being represented by Live Stock Commissioner W. F. Stevens and Chas. S. Hotchkiss of the Depart-

ment of Agriculture, Edmonton. Meetings were also held with the railway officials, and some progress was made towards an equitable agreement. The committee of live stock breeders still have the matter in hand, and it is probable that the railway commission will take evidence on this subject throughout the Dominion before it is finally disposed of.

## FUTURE PROSPECTS FOR THE LIVE STOCK INDUSTRY.

Although the cutting up of the ranges particularly those located fairly close to railways, is resulting in the large cattle ranchers being closed out, I believe there is no reason to doubt that the cattle being raised annually on the farms, and the very considerable amount of breeding stock being brought in annually by settlers, will keep pace with the production of live stock in Alberta, and each year show an increase. There are many who believe that as a result of the cutting up of the large cattle ranches, a very considerable annual decrease will be shown in the cattle stock of the province. I am of the opinion that those who take this view do not realize what a large number of small herds are being established each year, and the number of breeding animals which are being imported by new settlers. The price on beef will no doubt continue to be very satisfactory, and the outlook for the breeders of cattle is and will continue to be bright.

Following is a list of prize winners at the 1911 Purebred Cattle Show held at Calgary in connection with the auction sale of bulls:

#### CLASS I .- SHORTHORN BULLS.

# Three years and over.

| 1st  | Sir Henry 2nd, 69056 Wm. Anderson, De Winton         |
|------|--|
| 2110 | Affilier view Favorite, 72235. John Dungen Innisfeil |
| ora  | Lord Allsa, 71315                                    |
| 4tn  | Herricom, 69629. W. F. Moran Inniefeil               |
| otn  | Mack, 73080  |

## Thirty months and under three years.

| 1st  | Valentine, 80043 |       | 1. A     | W Lotino  | D1          |
|------|------------------|-------|----------|-----------|-------------|
| 2nd  | Wastern D.       |       | <br>, A. | w. Laume  | er, Bowden. |
| 2110 | Western Remus,   | 72977 | <br>No   | rman Hari | า๋ร         |

### Two years and under thirty months,

| 1st  | Jaspar, 81173                     |
|------|-----------------------------------|
| 211U | Roan Duke, 19382                  |
| ora  | Scotch Lad, 81611                 |
| 4tn  | Victor, 81609 J. L. Walters Clive |
| oth  | Village Hero, 79380               |

### Eighteen months and under two years.

| 1st         | Janitor, 81171 Wm. Sharp, Lacombe. |
|-------------|------------------------------------|
| $2\mu a$    | Justice, 811// Wm Sharn Lecombo    |
| ora         | Andrew, 81613 J. L. Walters Clive  |
| $4	ext{th}$ | Jack, 81610. J. L. Walters, Clive  |

### Yearlings and under eighteen months.

| 1st  | Julian, 81169 Wm. Sharp, Lacombe.    |
|------|--------------------------------------|
| 2110 | Lavender Ury Bryce Wright De Winten  |
| oru  | FILICE UTV Regree Wwight Do William  |
| 400  | Farmers Boy, 80850 A H Rolton Glodys |
| 5th  | Ury FashionBryce Wright, De Winton   |

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| Best Shorthorn bull, any age, bred in Alberta.  |
|---|
| Jaspar Wm. Sharp, Lacombe,  |
| Special offered by Canadian Bank of Commerce for best Shorthorn bull, any age.  |
| Jaspar  |
| CLASS II.—HEREFORD BULLS.   |
| Three years and over.   |
| 2nd Hero, 10116A. Fletcher, Mound.  |
| Thirty months and under three years.  |
| 1st Diamonds Pride. Thos. Baird, Red Willow. 2nd Freestone. Thos. Baird, Red Willow.  |
| Two years and under thirty months.  |
| 1st Hamburg, 9450. S. M. Mace, Pekisko. 2nd Darby 9939. P. F. Huntley, Onion Lake. 3rd Alberta Hesiod, 12th. O. Palmer, Lacombe. 4th Alberta Hesiod, 10th. O. Palmer, Lacombe.  |
| Eighteen months and under two years.  |
| 1st Duke, 10017. A. Fletcher, Mound. 2nd Sidney, 10016. A. Fletcher, Mound. 3rd Dago, 9938. P. F. Huntley, Onion Lake. 4th Alberta Hesiod 2nd. O. Palmer, Lacombe. 5th Dandy, 9941 P. F. Huntley, Onion Lake.   |
| Yearlings and under eighteen months.  |
| 1st Alberta Hesiod 23rd, 9738 O. Palmer, Lacombe. 2nd Dick 9940 P. F. Huntley, Onion Lake.  |
| Best Hereford Bull, any age.  |
| Hamburg, 9450S. M. Mace, Pekisko.   |
| CLASS III.—ABERDEEN ANGUS BULLS.  |
| Two years.  |
| 1st Wildwood Gaylawn 2nd, 3705G. G. Melson, Olds. 2nd Kenneth, 3708W. T. G. McClure, Innisfail.   |
| Under two years.  |
| 1st Caledonia, 3789. W. T. G. McClure, Innisfail. 2nd Dundee, 4061. W. T. G. McClure, Innisfail. 3rd Wildwood Gaylawn 8th, 5188. W. T. G. McClure, Innisfail. 4th Wildwood Gaylawn 6th, 4186. W. T. G. McClure, Innisfail. 5th Wildwood Gaylawn 7th, 4187. W. T. G. McClure, Innisfail. |
| Best Angus Bull, any age, bred in Alberta.  |
| , Caledonia,  |
| Best Angus bull, any age.   |
| Caledonia   |

#### CLASS IV .- GALLOWAYS.

#### Two years.

| 1st | Duke of Tees, | 1786 | W. E. | Tees, | Lacombe. |
|-----|---------------|------|-------|-------|----------|
|-----|---------------|------|-------|-------|----------|

Best Galloway bull, any age, bred in Alberta.

Duke of Tees. . . . . . . . . . . . . . . . . . W. E. Tees, Lacombe.

Best Galloway bull, any age.

CLASS V.—HOLSTEINS.

Three years and over.

1st Dora's King, 6541......A. Von Mielecki, Calgary.

Best Holstein Bull, any age.

Dora's King......A. Von Mielecki, Calgary.

CLASS VI. -- AYRSHIRES.

Three years and over.

1st Neidpath Star, 27845.....O. M. Forham, Red Deer.

Under three years.

1st Sandy of Lone Spruce, 30963.....A. H. Trimble, Red Deer. 2nd Guarantee's Rejected, 29549.....E. W. Bjorkeland & Sons, Red

3rd Glen of Lone Spruce, 30646.....A. H. Trimble, Red Deer.

Best Ayrshire bull, any age.

Neidpath Star......O. M. Forham, Red Deer.

### FAT STOCK SHOW.

The fat stock show was held as usual in conjunction with the auction sale of cattle. The awards were made by Mr. Duncan Anderson, of Rigby, Ont. The awards in the dressed carcass competition were placed by Mr. O. F. Bruner of Strathmore, Alta. There were 157 entries in the fat stock show. Owing to the other events of the associations, namely, the horse show and the auction sale of cattle taking up such a large amount of the time of the breeders and those who would be interested in the fat stock show, it has been found difficult to work up the interest in the fat stock show which it is believed would be possible were the show held at another time in the year. The matter of a change of date for the fat stock show has been carefully considered by the executive committees of the various associations, and it is their unanimous opinion that the fat stock show should be held each year the latter part of November or early in December at the time of the poultry show at Calgary. It is expected therefore that the next show will be held about the first of December in 1912, and that the fat stock show will develop very rapidly. If this change is made there will be sufficient time for instructive lectures and other special features which will add greatly to the good which the fat stock show will be to the province.

Following is a list of the prize winners in the cattle classes at

the Alberta Provincial Fat Stock Show.

# Annual Report, 1911

## PUREBRED SHORTHORNS.

|                          | TOTELDING STOTE  |
|--------------------------|--|
|                          | Steer or heifer, two years old and under three.  |
| 1st                      | White RoseJ. L. Walters, Clive.  |
|                          | Steer or heifer under two years.   |
| 1st<br>2nd               | Sir John Thompson. J. L. Walters, Clive.<br>Lydia. J. L. Walters, Clive.   |
|                          | PUREBRED GALLOWAYS.  |
| Steer                    | three years old and under four, cow or heifer three years old and under six.   |
| 2nd                      | Molly of Tees  |
|                          | Steer or heifer two years and under three.   |
| 1st                      | Black Joe  |
|                          | Steer or heifer under two years.   |
| Beau                     | ity of Tees  |
|                          | GRADES.  |
|                          | Three years old and under four.  |
| 1st<br>2nd<br>3rd<br>4th | Jeff P. F. Huntley, Onion Lake. W. E. Tees, Lacombe. Bill J. A. McLaughlin. Thos. Croxford, Airdrie.                   |
|                          | Two years old and under three.   |
|                          | Thos, Croxford, Airdrie.  A. F. McGill, Clive.  Knight Errant Lew Hutchinson, Duhamel. Rogers Lew Hutchinson, Duhamel. |
|                          | Under two years.   |
| lst                      | W. E. Tees, Lacombe.   |
|                          | Cow or heifer three years old and under six.   |
| 1st                      | Daisy A. H. Bolton, Gladys.  |
|                          | Heifer two years and under three.  |
| 0 1                      | Adventuress Lew Hutchinson, Duhamel. W. E. Tees, Lacombe. Thos. Croxford, Airdrie.                                     |
|                          | Heifer under two years.  |
| 3rd                      |  |
|                          | PECIAL BY THE CANADIAN ABERDEEN ANGUS ASSOCIATION.   |
| For                      | Grade steer or heifer, sired by an Aberdeen Angus bull, registered in the Canadian Aberdeen Angus Record.              |
| 1st<br>2nd<br>3rd        |  |
| 1st<br>2nd               |  |

# DEPARTMENT OF AGRICULTURE

#### CARLOAD, OPEN TO ALL.

| CARLOAD, OPEN TO ALL.  |
|--|
| 1st P. Burns & Co. Calgary. 2nd J. Riou Davisburg.   |
| CHAMPION BEEF ANIMAL.  |
| JeffP. F. Huntley, Onion Lake.   |
| DRESSED CARCASES.  |
| Purebred or grade steer.   |
| 1stThos. Croxford.Airdrie.2ndThos. Croxford.Airdrie.3rdW. E. Tees.Lacombe,4thLew Hutchinson.Duhamel,   |
| Purebred or grade cow or heifer.   |
| 1st         Lew Hutchinson.         Duhamel.           2nd         J. L. Walters.         Clive.           3rd         Thos. Croxford.         Airdrie.           4th         Thos. Croxford.         Airdrie. |
| CLASS VII.—HERDSMAN'S COMPETITION.   |
| Feeder of the champion beef animal.  |
| P. F. HuntleyOnion Lake.   |
| Feeder of the best female dressed carcase.   |
| Lew Hutchinson. Duhamel,   |
| Feeder of the best dressed carcase.  |
| Thos. Croxford   |

# DRESSED CARCASE COMPETITION.

| STEERS.  |   |   |   |   |  |   |  |  |
|--|---|---|---|---|--|---|--|--|
| OWNER  | Live<br>Weight  | Dressed<br>Weight   | Yield<br>%  | Shrunk<br>Weight  | Price<br>per lb.   | TOTAL   |  |  |
| Thos. Croxford (1st prize). Thos. Croxford (2nd prize). Thos. Croxford (2nd prize). Thos. Croxford. Lew Hutchinson (4th prize). P. F. Huntley. A. F. McGill. S. M. Mace. S. M. Mace. Thos. Talbot. Thos. Talbot. W. E. Tees (3rd prize). | 1,310<br>1,160<br>1,200<br>1,140<br>1,250<br>1,600<br>1,275<br>1,040<br>1,150<br>1,290<br>1,215 | 920<br>835<br>740<br>770<br>690<br>790<br>1,005<br>760<br>660<br>705<br>805<br>732<br>745 | 62.79<br>63.74<br>63.79<br>64.16<br>60.52<br>63.20<br>62.18<br>59.60<br>63.46<br>61.30<br>62.40<br>60.24<br>63.40 | 910<br>830<br>705<br>765<br>680<br>790<br>1,000<br>747<br>645<br>695<br>795<br>732<br>735 | 15c<br>11c<br>13½c<br>11c<br>11c<br>11c<br>11c<br>11c<br>11c<br>11c<br>1 | \$136.50<br>91.30<br>95.17<br>84.15<br>74.80<br>86.90<br>110.00<br>82.17<br>70.95<br>76.45<br>87.45<br>80.52<br>91.87 |  |  |
|  | CO.   | ws.   |   |   |  |   |  |  |
| Thos. Croxford (4th prize) Thos. Croxford [3rd Prize] Thos. Croxford. Lew Hutchinson (1st prize) W. E. Tees. J. L. Walters (2nd prize) A. H. Bolton.   | 880<br>800<br>835<br>1,180<br>960<br>1,210<br>1,270   | 535<br>488<br>510<br>730<br>560<br>773<br>698   | 60.79<br>61.00<br>61.07<br>61.86<br>58.33<br>63.88<br>54.96   | 530<br>482<br>505<br>730<br>550<br>762<br>685   | 10c<br>11½c<br>10c<br>14c<br>10c<br>12½c<br>10c                          | 53.00<br>55.43<br>50.50<br>102.20<br>55.00<br>95.25<br>68.50  |  |  |

I have pleasure in attaching hereto a copy of the financial statement showing the receipts and expenditures for the year 1911, which have been audited and found correct by the official auditor of the Alberta Live Stock Associations.

Financial Statement of The Alberta Cattle Breeders' Association, 1911.

#### Receipts.

| Proceeds of sale                                   | \$13,888.00 |
|--|-------------|
| Subscription by Canadian Bank of Commerce          | 25.00       |
| Transportation fees                                | 725.47      |
| Commissions on sales                               | 338.65      |
| Entry fees   | 332.00      |
| Membership fees                                    |             |
| Advertising receipts.                              | 16.25       |
| Refunds and sundries Overdraft 31st December, 1911 |             |
| Overdrait 51st December, 1911                      | 651.57      |
|  | \$17,330.09 |

#### Disbursements.

| Proceeds of sales                      | \$13.888.00 |
|--|-------------|
| Freight charges                        | 1.085.33    |
| Postage, stationery and office expense | 551.12      |
| Secretary's salary                     | 500.00      |
| Grounds expense and extra help         | 330.05      |
| Prizes                                 | 287.04      |
| Sundries                               | 54.05       |
| Printing and advertising.              | 358.76      |
| Overdraft of 1910 carried forward      | 275.74      |
|  |             |
|  | \$17 220 00 |

### ALBERTA PROVINCIAL FAT STOCK SHOW.

#### Receipts.

| Balance on hand 31st December, 1911          | \$ 54.00   |
|--|------------|
| Grant by Alberta Department of Agriculture   | 1.400.00   |
| Grant by Dominion Department of Agriculture  | 216.66     |
| Grant by Canadian Aberdeen Angus Association | 50.00      |
| Grant by Swift Canadian Co                   | 25.00      |
| Entry fees and exchange                      | 154.65     |
| Freight fees                                 | 91.00      |
| Overdraft December 31st, 1911                | 62.98      |
|  |            |
|  | \$2,054.49 |

#### Expenditure.

| Office and grounds expense                                      | . \$ 377.68 |
|---|-------------|
| Secretary's salary  | . 100.00    |
| rrizes  | 1.293.00    |
| Freight charges   | . 136.05    |
| Printing and advertising.  Refund of entry fees collected twice | 137.76      |
| Tierdia of chary rees concerted twice                           | 10.00       |

Audited and found correct, March 7th, 1912.

(Sgd) F. R. EXHAM, Auditor.

\$2,054.49

It is evident that the revenue of the association must be increased. The loss sustained by the association in connection with the shipment of the cattle to and from the sales was \$360 in 1911. This is a considerable item, and is increasing since the association has been holding two sales annually, and has to ship animals to and from a large number of stations in Alberta twice a year instead of once. The number of small and expensive shipments has increased, and we have fewer carload shipments.

In closing I wish to thank the Dominion and Alberta Departments of Agriculture for financial assistance and co-operation during the

past vear.

Respectfully submitted,

E. L. RICHARDSON,

Secretary.

#### APPENDIX

### SIXTH ANNUAL REPORT OF THE ALBERTA NATURAL HISTORY SOCIETY.

HON. DUNCAN MARSHALL, Minister of Agriculture.

SIR,—I have the honour to submit herewith the sixth annual report of the Alberta Natural History Society for the year 1911.

The deferred annual meeting of the society for 1911 was held at Red Deer on April 19th, 1912, President Wm. Geary being in the chair.

The minutes of last annual meeting were read and adopted.

The president's annual address was then given, welcoming the members to the meeting. He then gave a verbal report of the work done in 1911. The year had been a quiet one as far as the formation of new societies and the undertaking of new work was concerned.

The four branches in operation were Innisfail, Red Deer, Edmonton and Erskine. It was hoped soon to have branches at Ponoka and Camrose. Correspondence with interested parties in these places was in progress to that end. There were also good prospects for a branch being formed at Banff.

During the year an interesting communication was received from Mr. W. M. Fleming of Flagstaff containing notes of bird migration

as noticed at that point.

Verbal reports were also given by Mr. Geary on behalf of the Innisfail branch, stating that monthly meetings had been held until July, but not regularly since then owing to removal of members from the town. There were, however, a number of prospective new members and the society would be reorganized. The branch possessed the nucleus of a valuable library of natural history for the use of the members.

Mrs. S. S. Judd of Erskine reported on behalf of that branch that the society had been somewhat dormant, but plans for reor-

ganizing were under way.

Dr. George reported on behalf of the Red Deer branch that monthly meetings were being held with much profit to the members.

#### SECRETARY-TREASURER'S REPORT.

The secretary-treasurer's financial statement was read as follows:

#### Receipts.

| " Grant to Society, 1910 " Grant to Society, 1911 " T. B. Potter, fee " Rev. J.S. Shortt, fee   | . 50   | \$228.90 |
|---|--|----------|
| Expenditure.  |  |          |
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| _   |  | \$228.90 |

#### ELECTION OF OFFICERS.

Hon. President, Hon. Duncan Marshall; Hon. Vice-President, George Harcourt; President, Dr. H. George, Red Deer; Vice-Presidents, Mrs. G. W. Greene, Red Deer; Mrs. W. Geary, Innisfail; and F. S. Carr, Edmonton; Secretary-Treasurer, Rev. J. S. Shortt, Innisfail.

#### EXECUTIVE COMMITTEE.

J. Jenson, Innisfail; W. B. Sanson, Banff; Mrs. George, Red Deer; Mrs. Wanless, Red Deer; Mrs. Keast, Innisfail; Mrs. Talman, Red Deer; R. E. Fiske, Hillsdown; Mrs. Cottingham, Red Deer; Mrs. Morton, Erskine, together with branch presidents.

> Rev. J. S. Shortt, Secretary-Treasurer.



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